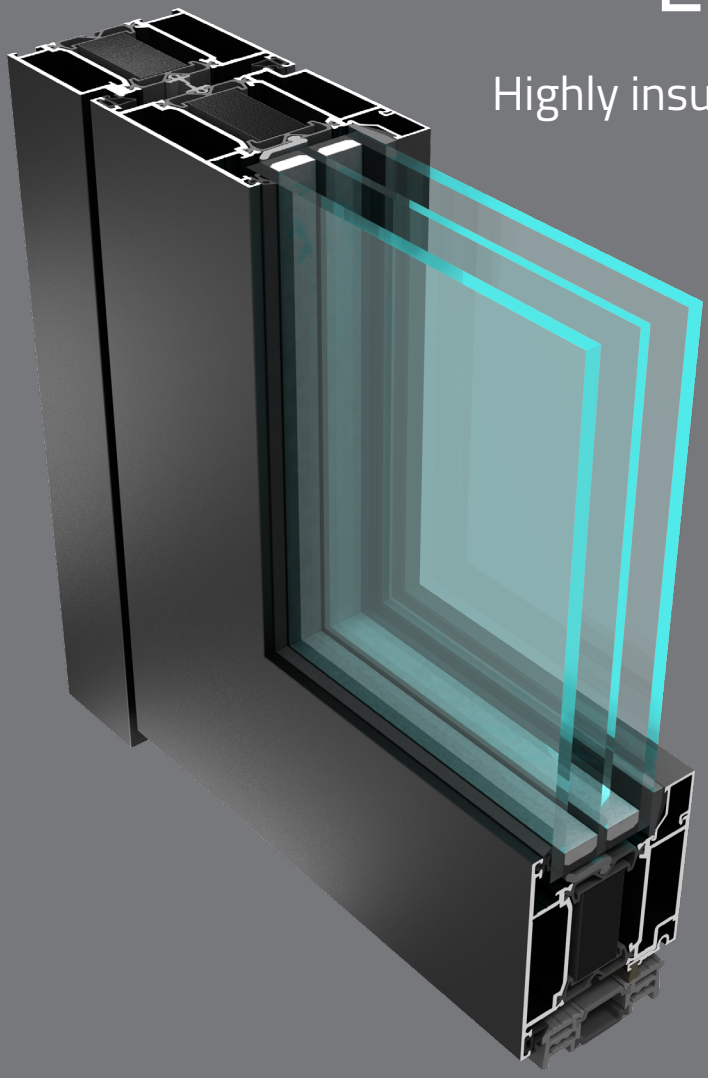
PURSO®

Tehokkaasti eristetty ovijärjestelmä

LK78H

Highly insulated doors



PURSO® Premium Partner in Building

Tehokkaasti eristetty ovijärjestelmä

LK78H

Highly insulated doors

Käyttökohteita
- Ulos- ja sisäänaukeavat käyntiovet
- Ylä- tai sivupielelliset ovet

Ominaisuuksia
- Lämpöeristetty alumiininen ulko-ovijärjestelmä
- Erinomainen lämmöneristävyys. Oven U-arvo alle 1,0 W/m²K
- Profiilien pintakäsittelynä on yleensä anodisointi tai jauhemaalaus.
- Runkoprofiilien ulko- ja sisäpuoli voidaan tehdä erivärisiksi.
- Runkosyvyys 78 mm
- Runkojen leveydet 30…150 mm
- Voidaan käyttää joko pinta- tai putkisaranoita
- Käytettävän eristyslasipaketin tai umpiosan vahvuus 21...61 mm.
- LK78H-järjestelmän ovet voidaan liittää helposti K78-ikkuna- ja P50L-julkisivujärjestelmiin.
- Tarvittaessa voidaan tehdä myös uusia profiilimuotoja nopeasti ja edullisin kustannuksin.
- Täysin kierrätettävissä
- Vähäinen huollon tarve eliniän aikana
- Toimii kaikissa sääolosuhteissa
- CE-merkittävissä SFS-EN 14351-1 +A1 mukaan
- Mahdollisuus murtosuojaluokkaan RC3 (SFS-EN 1627)

Applications
- Outward and inward opening doors
- Doors with top or side light

Features
- Highly insulated aluminium door system
- Door U-value under 1.0 W/m²K
- Frame depths 78 mm
- Frame widths 30...150 mm
- Thickness of IGU or panels 21...61 mm
- Doors with surface mounted or butt hinges
- Powder coated or anodized surface treatment. Different finishes of inside and outside possible.
- New profile shapes can be produced quickly when necessary with low costs
- Completely recyclable
- Minimal care and maintanance required
- High resistance to any weather conditions
- CE- marking according to EN 14351-1 +A1
- Burglar resistance class upp to RC3 according to DIN EN 1627

Purso Oy vastaa tämän tuotekatalogin sovellustapojen toimivuudesta, mutta muista sovellustavoista vain erikseen sovittaessa. Vastuu rakenteiden valmistuksen ja asennuksen valvonnasta ei kuulu Purso Oy:lle.

Purso Oy quarantees the function of the applications described in this catalogue. Other applications are quaranteed only by separate agreement. Purso Oy does not take responsibility for control of the installations.

LK78H OVIJÄRJESTELMÄ
LK78H SYSTEM OF DOORS

LK78H ovityypit LK78H type of doors	1
LK78H ulosavautuva ovi LK78H outward opening door	1.1
LK78H sisäänavautuva ovi LK78H inward opening door	1.2
LK78H ovi yläpielellä LK78H door with fanlight	1.3
LK78H ovi sivupielellä LK78H door with side window	1.4
LK78H ovi P50L julkisivujärjestelmässä LK78H door in P50L curtain wall	1.5
LK78H RC3 ulosavautuva murtosuojaovi LK78H RC3 outward opening burglar resistance door	1.6
LK78H RC3 sisäänavautuva murtosuojaovi LK78H RC3 inward opening burglar resistace door	1.7
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Profiilit Profiles	7
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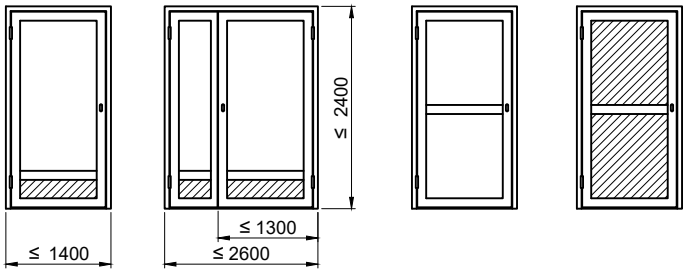
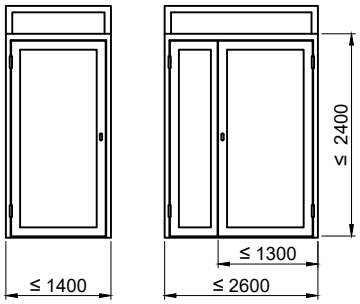
Lasituslistojen ja tiivisteiden valinta Selecting glazing beads and sealings	9

OVITYYPIT
TYPE OF DOORS

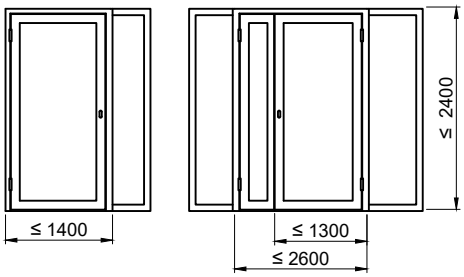
1.1, 1.2 LK78H YKSI- JA KAKSILEHTINEN OVI ULOS- TAI SISÄÄNAUKEAVANA
1.1, 1.2 LK78H DOOR



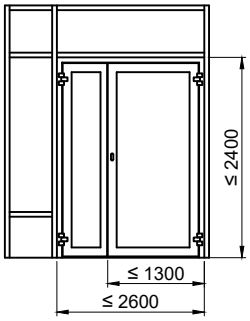
1.3 LK78H OVI YLÄPIELELLÄ
1.3 LK78H DOOR WITH FANLIGHT



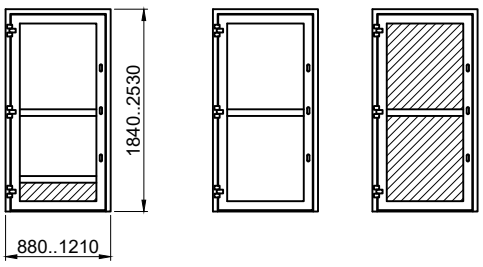
1.4 LK78H OVI SIVUPIELELLÄ
1.4 LK78H DOOR WITH SIDE WINDOW



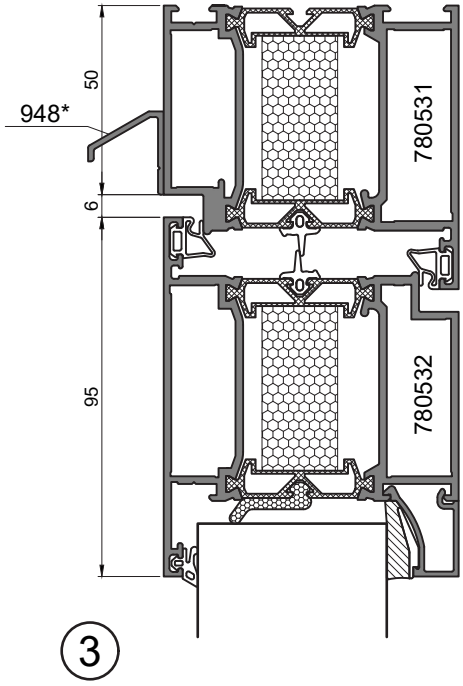
1.5 LK78H OVI P50L JULKISIVUJÄRJESTELMÄSSÄ
1.5 LK78H DOOR IN P50L CURTAIN WALL



1.6, 1.7 LK78H RC3 MURTOSUOJAOVI
1.6, 1.7 LK78H RC3 DOOR



LK78H ULOSAUKEAVA OVI
LK78H OUTWARD OPENING DOOR



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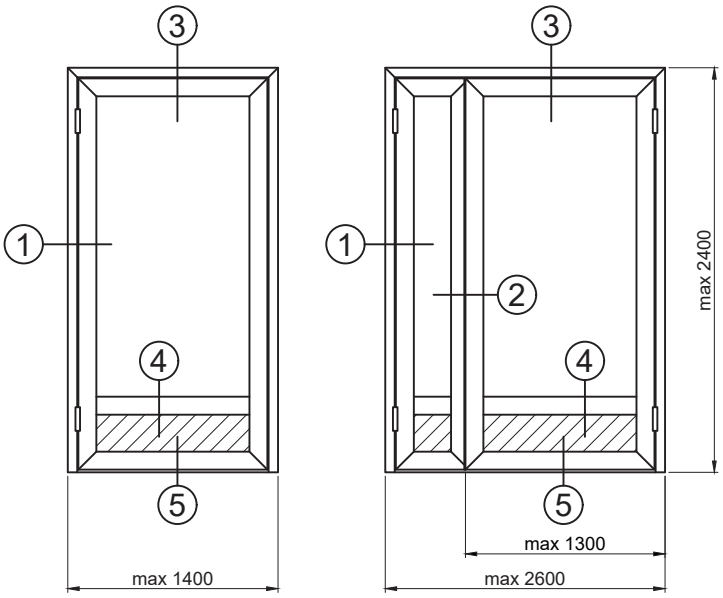

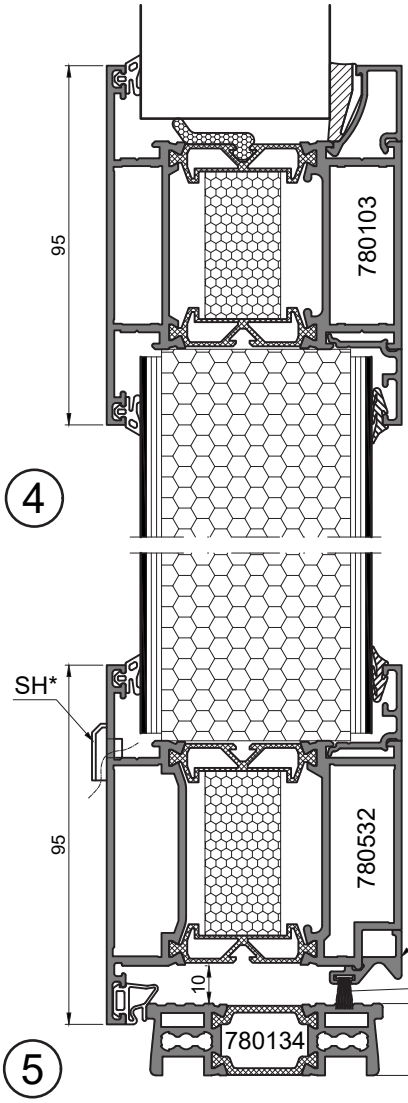

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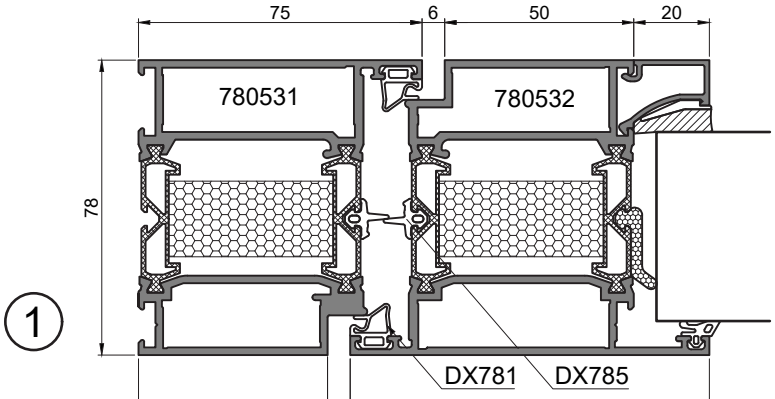

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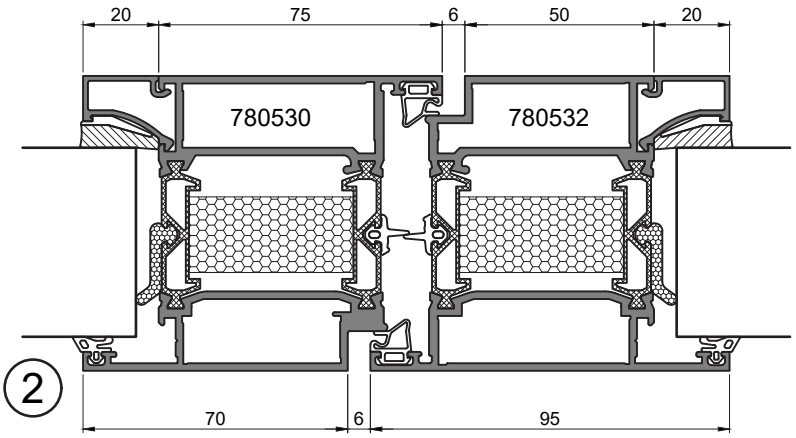

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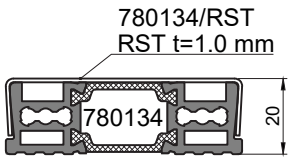
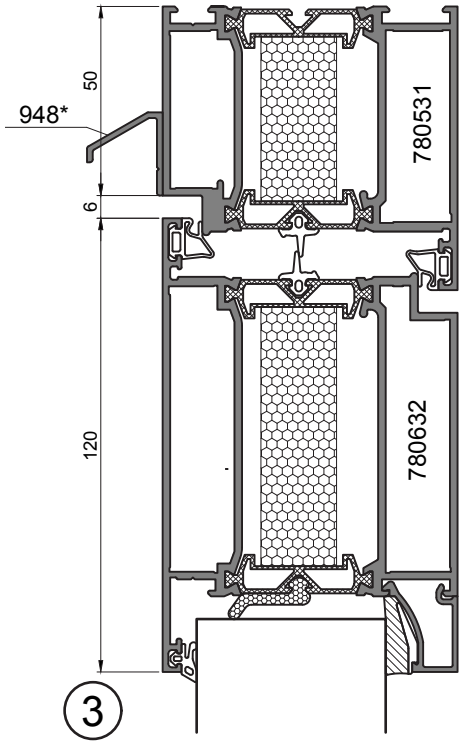
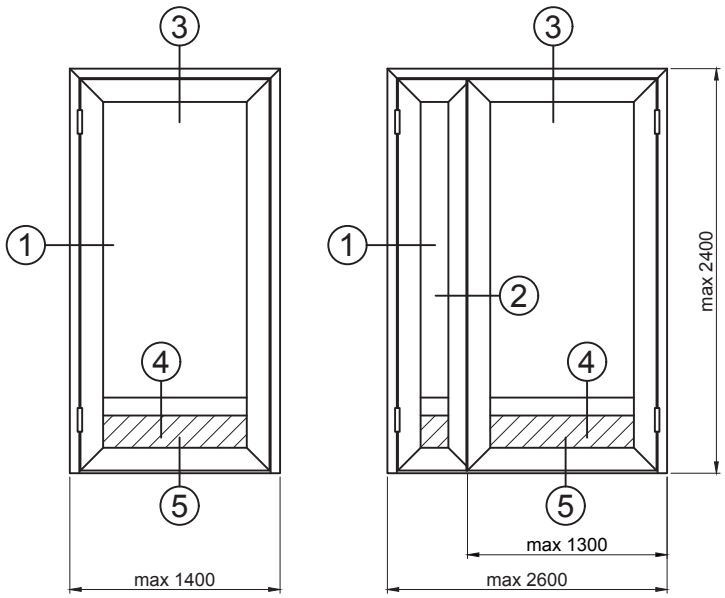


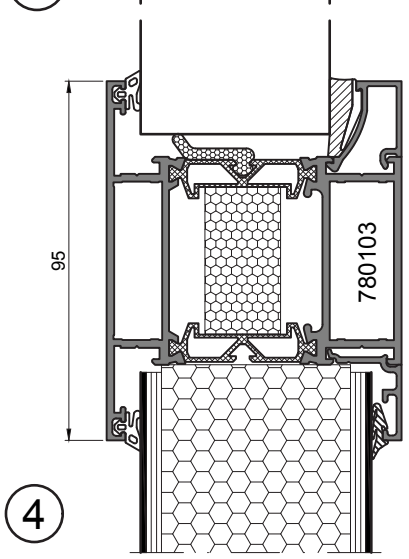
* Jos ovi ei ole sateelle alttiina,
ei tippalistaa ja tuuletusta (SH) tarvita.

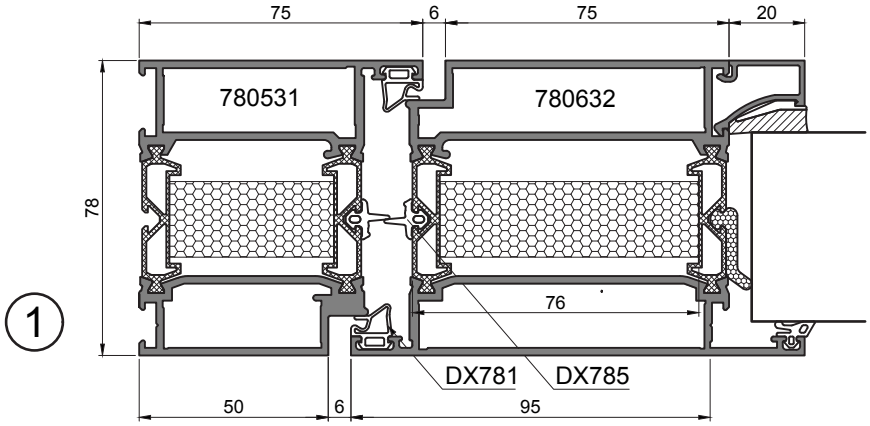
* If the door is not exposed to rain,
drip moulding and ventilation (SH)
are not necessary.

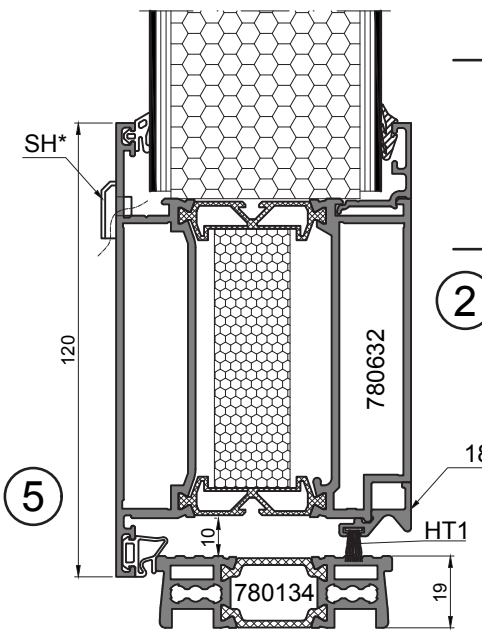
LK78H ULOSAUKEAVA OVI, PUITE 780632
LK78H OUTWARD OPENING DOOR, LEAF 780632

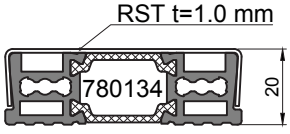


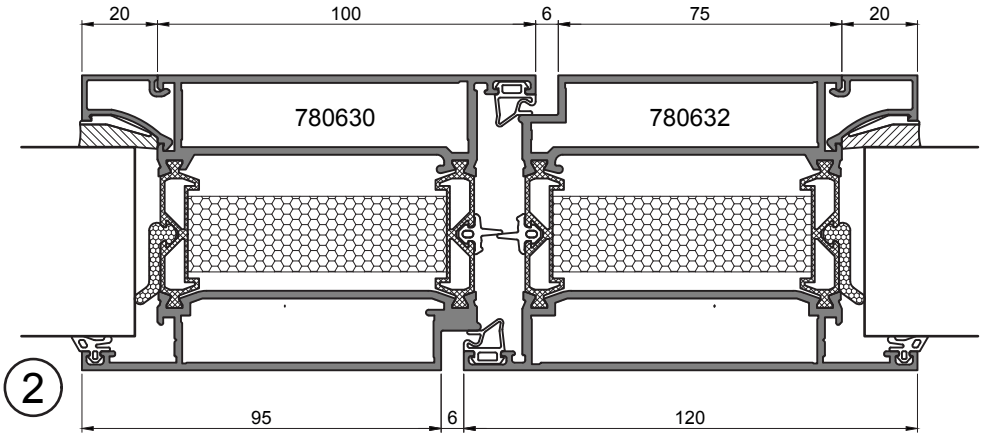








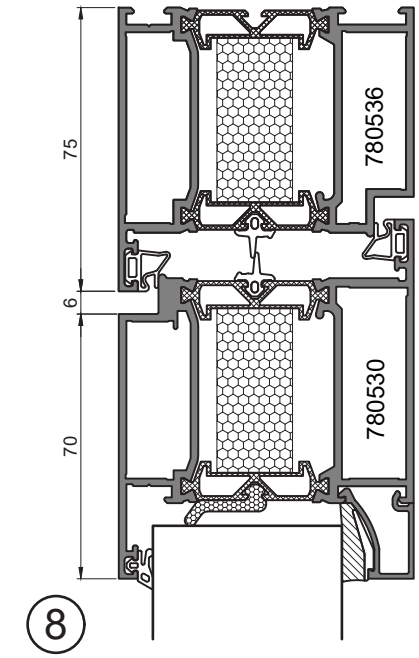


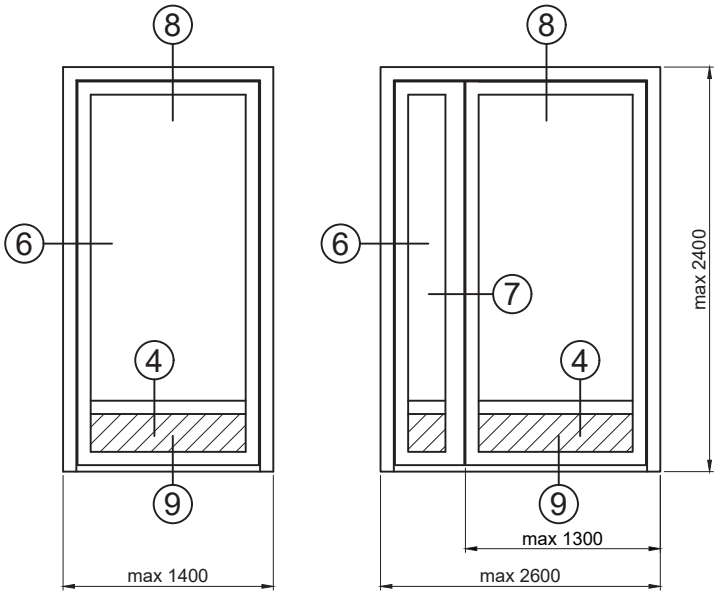


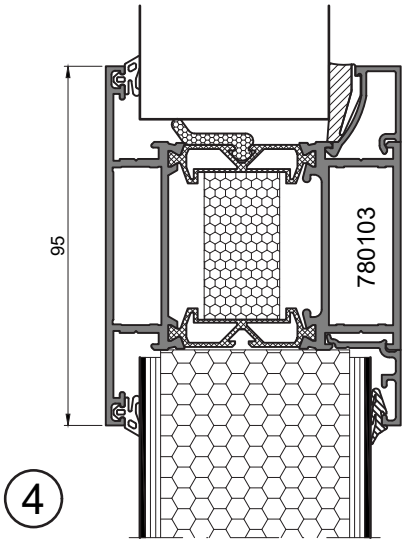
* Jos ovi ei ole sateelle alttiina,
ei tippalistaa ja tuuletusta (SH) tarvita.

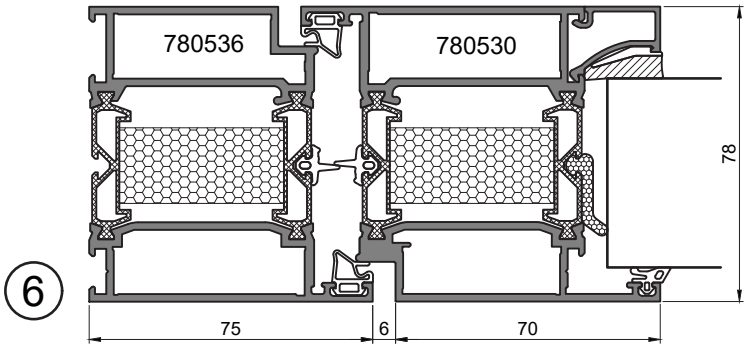
* If the door is not exposed to rain,
drip moulding and ventilation (SH)
are not necessary.

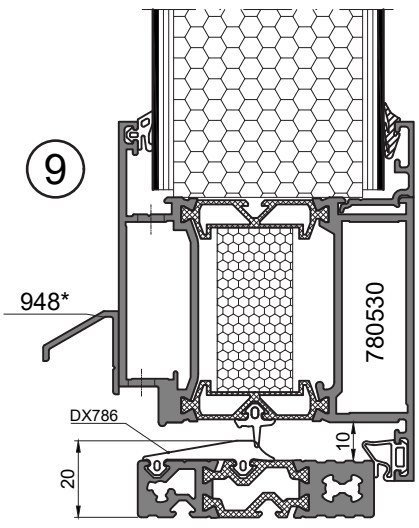
LK78H SISÄÄNAUKEAVA OVI
LK78H INWARD OPENING DOOR











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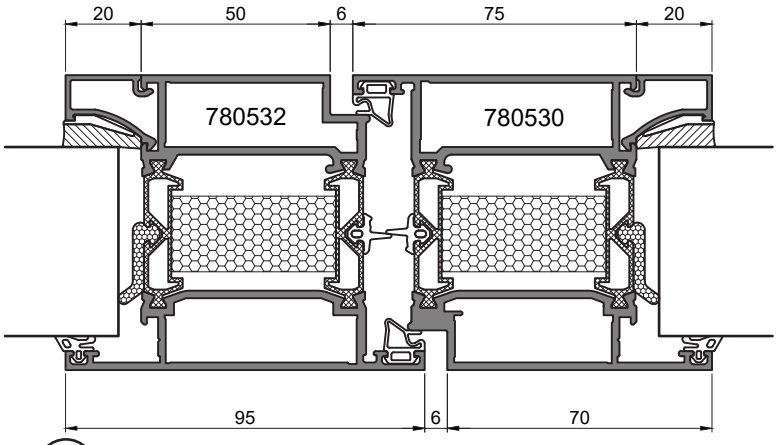

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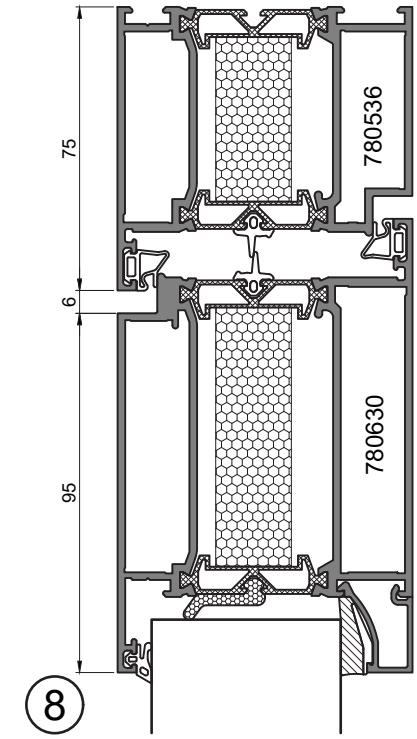
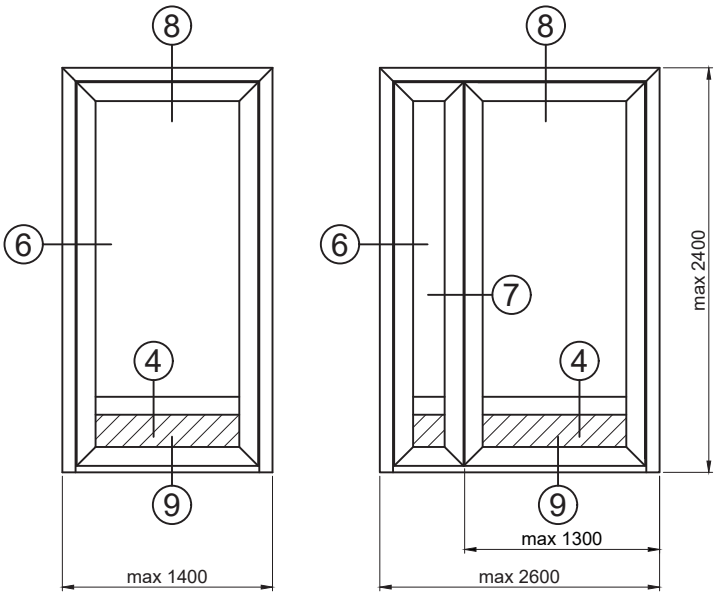
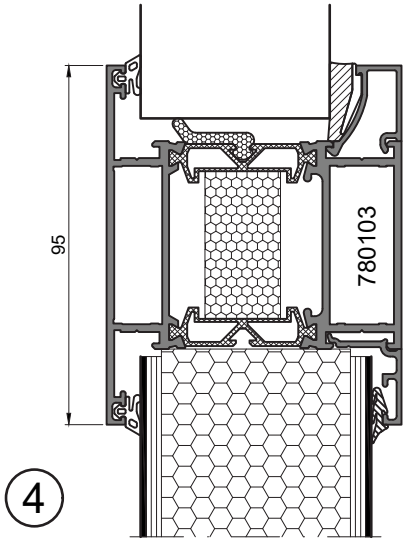
ei tippalistaa tarvita.

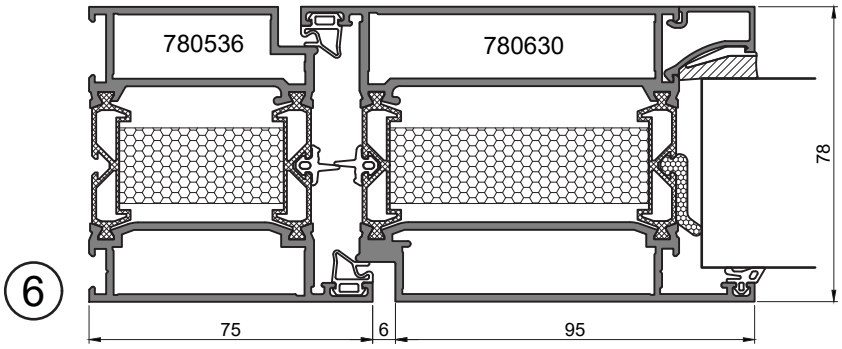
* If the door is not exposed to rain,
drip moulding is not necessary.

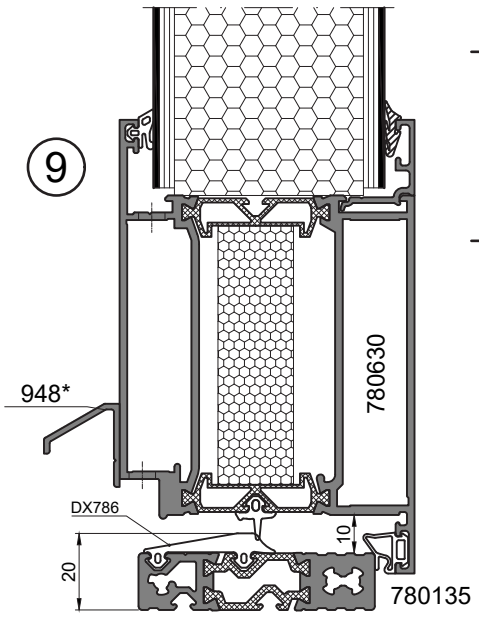
LK78H SISÄÄNAUKEAVA OVI, PUITE 780630
LK78H INWARD OPENING DOOR, LEAF 780630

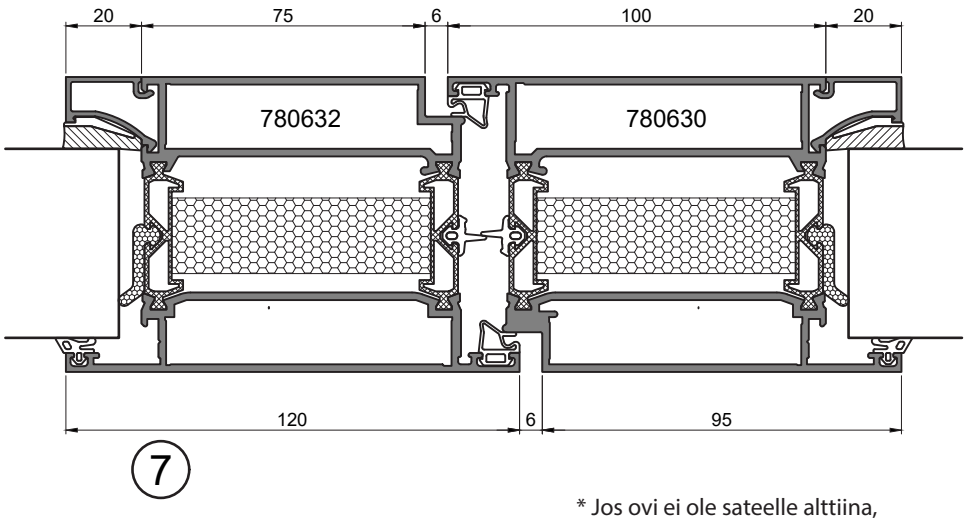








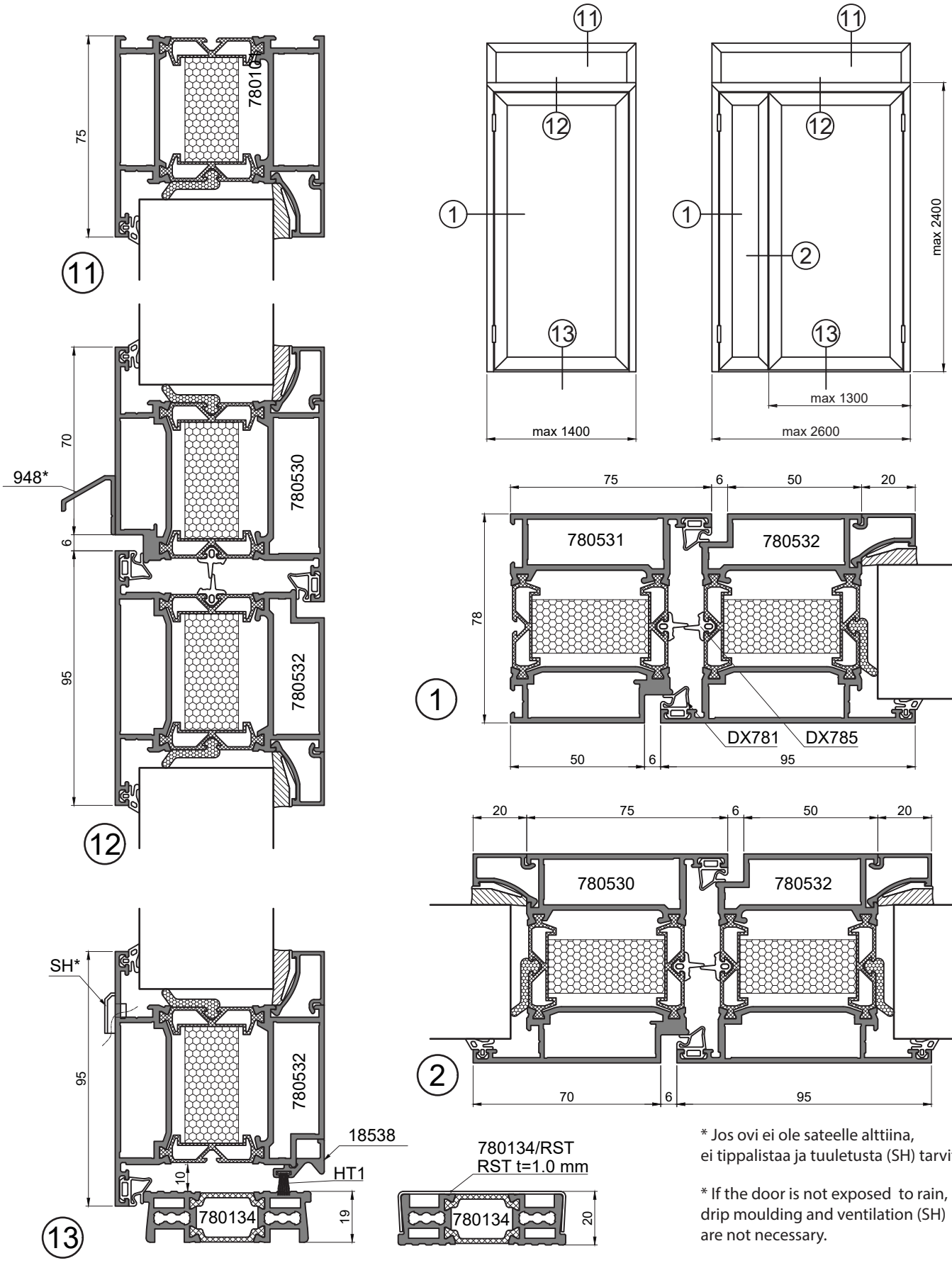




* Jos ovi ei ole sateelle alttiina,
ei tippalistaa tarvita.

* If the door is not exposed to rain,
drip moulding is not necessary.

LK78H OVI YLÄPIELELLÄ
LK78H DOOR



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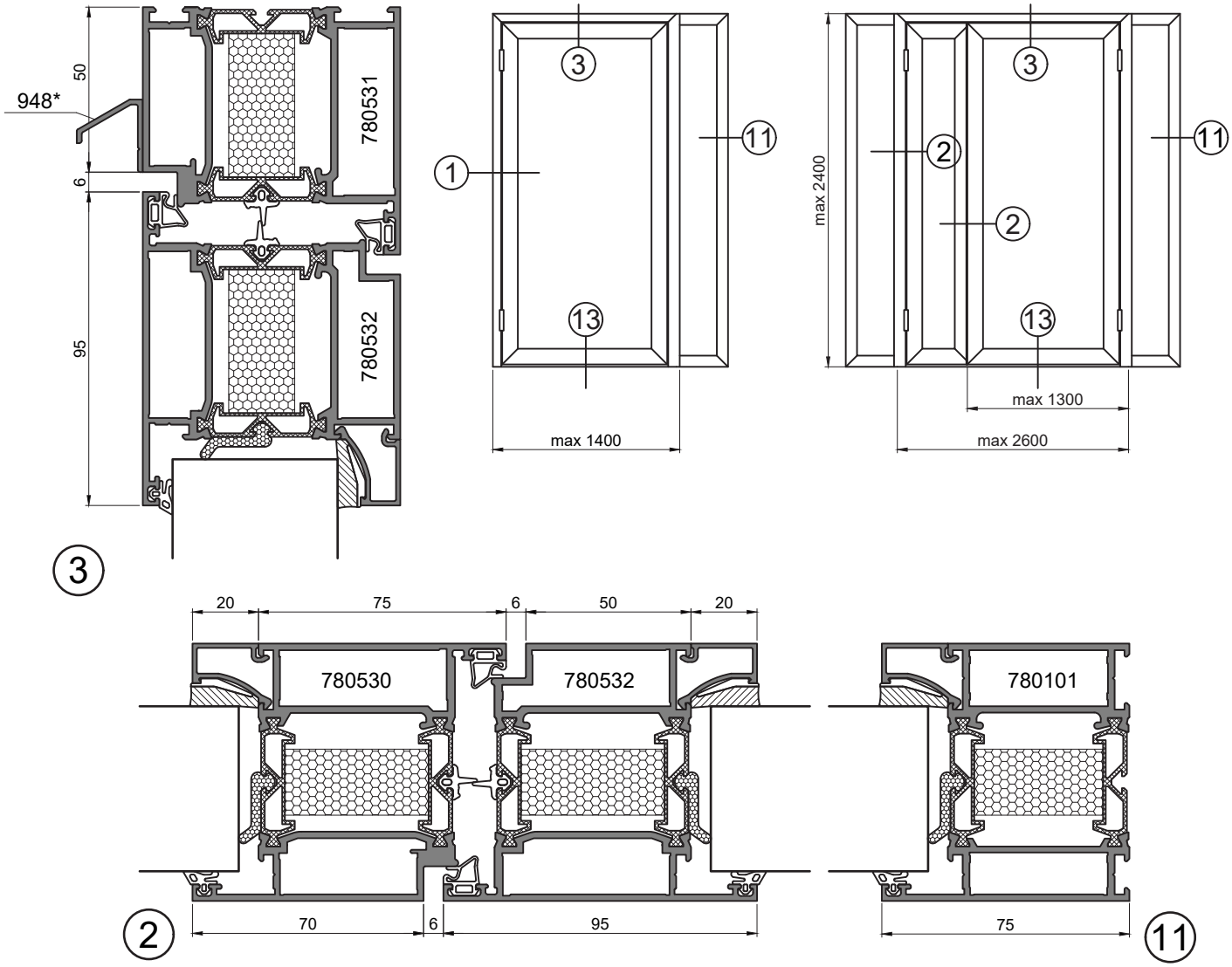
LK78H OVI SIVUPIELELLÄ
LK78H DOOR



* Jos ovi ei ole sateelle alttiina, ei tippalistaa ja tuuletusta (SH) tarvita.

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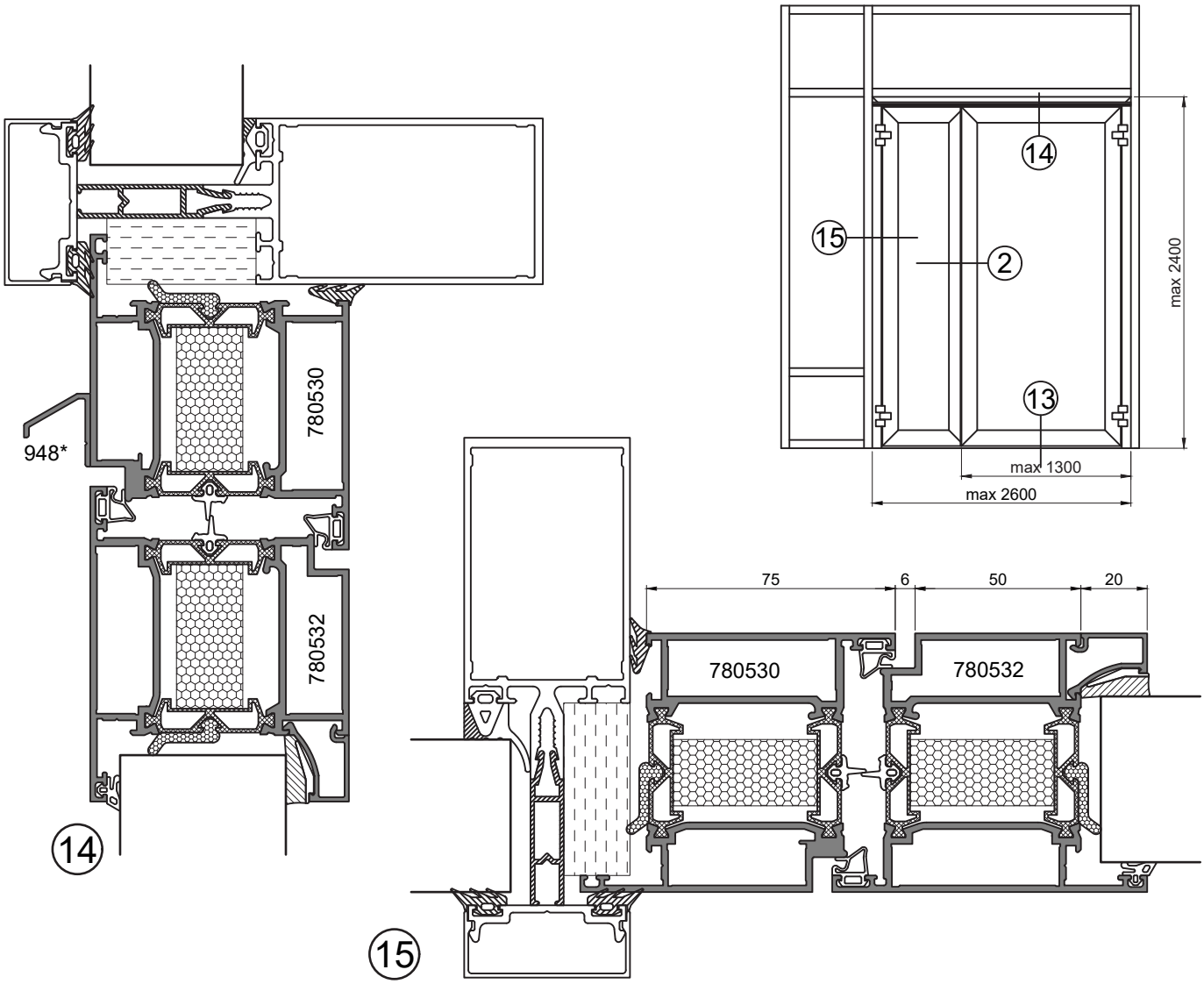
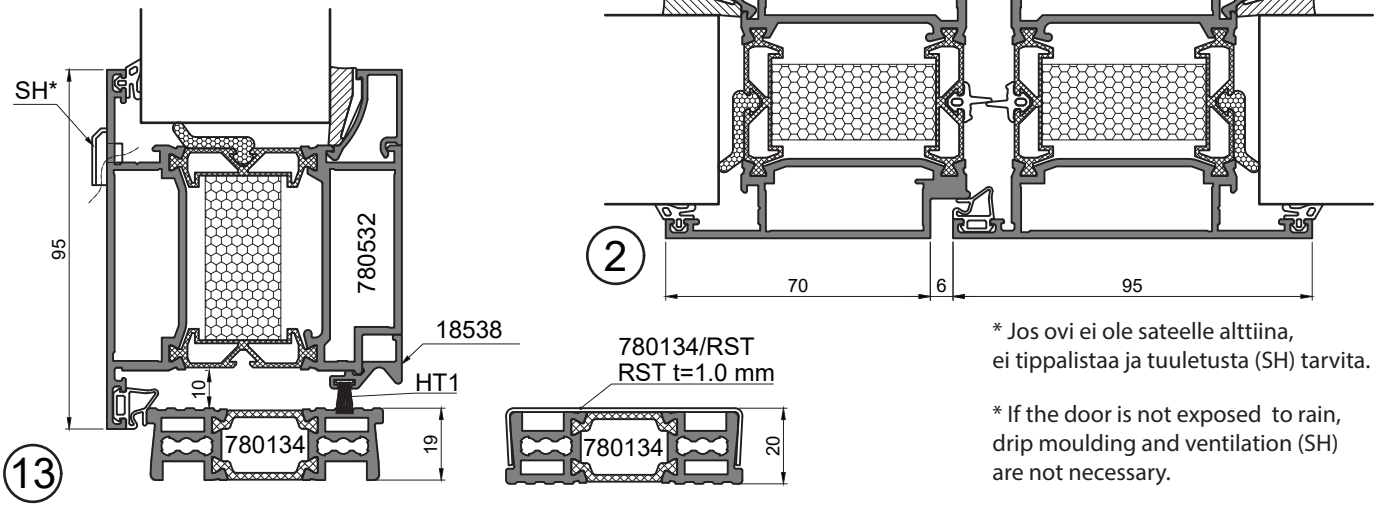
LK78H OVI P50L JULKISIVUSSA
LK78H DOOR IN P50L CURTAIN WALL





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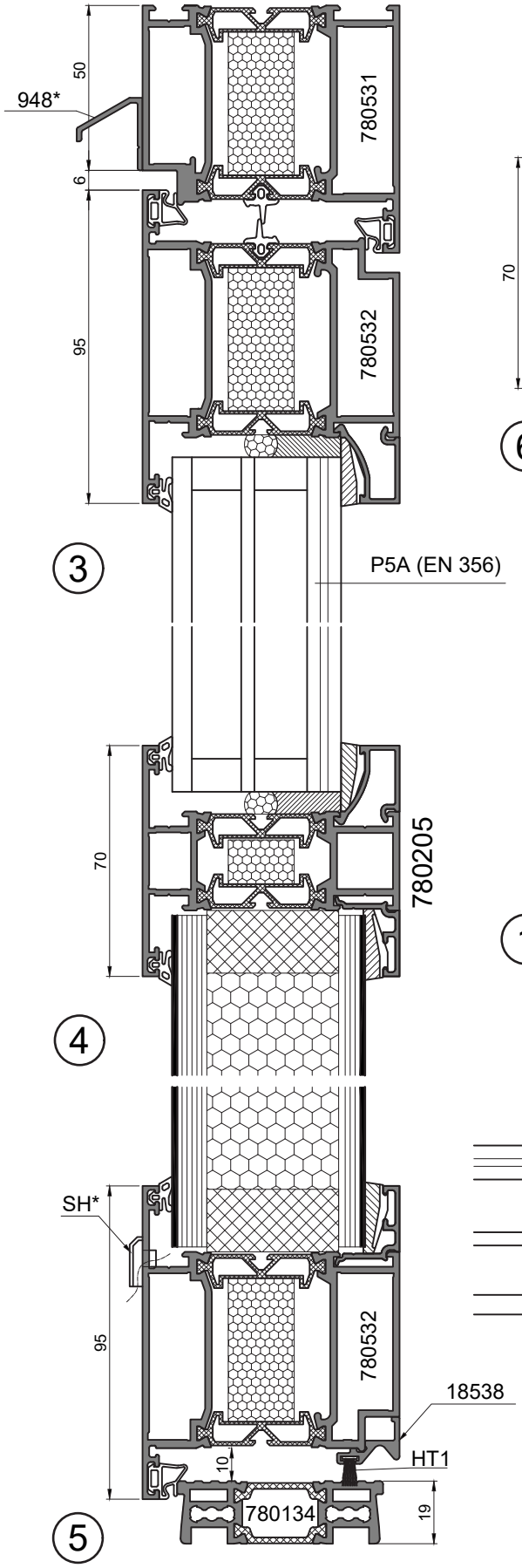
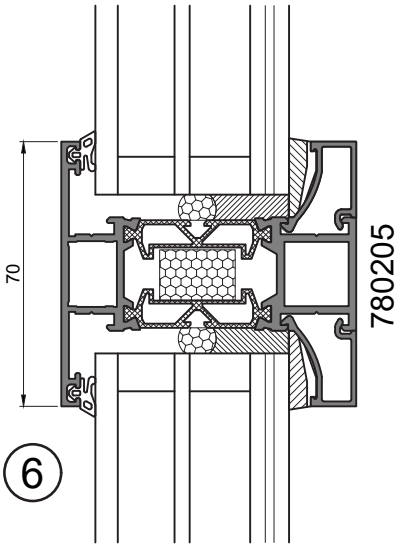
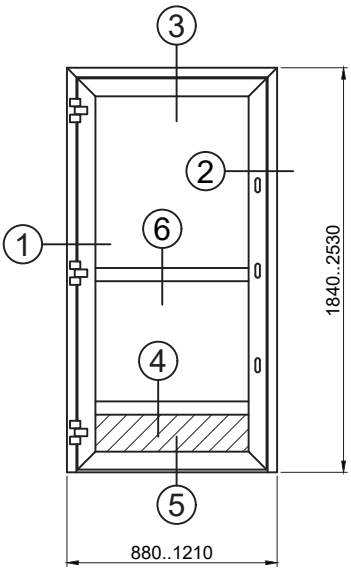
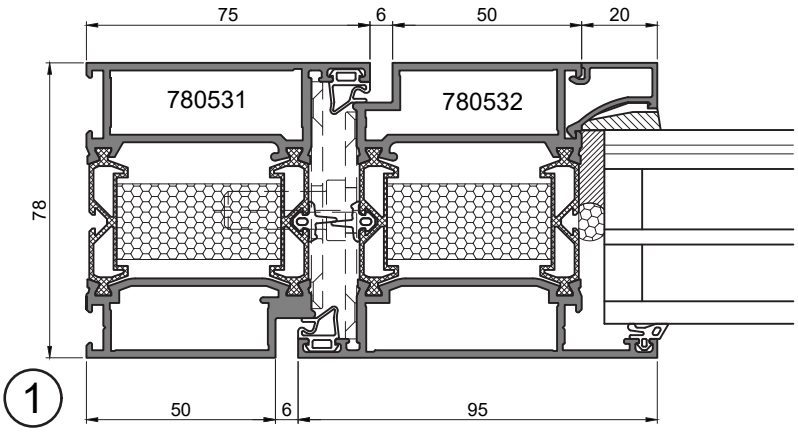
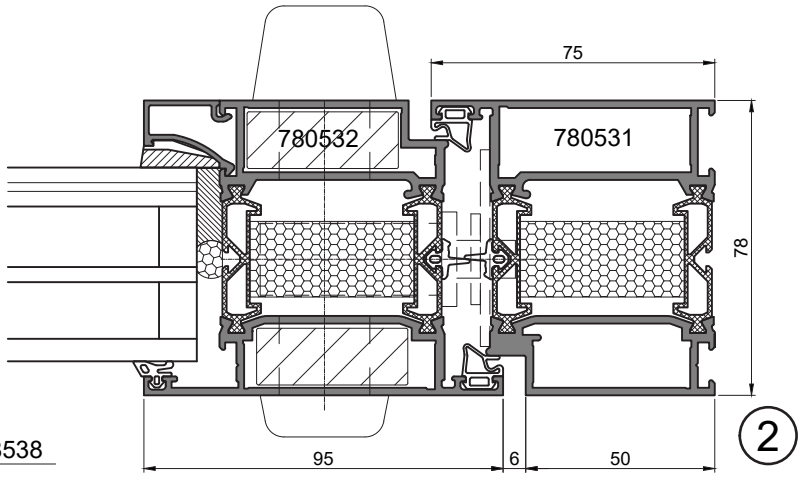
LK78H RC3 ULOSAUKEAVA MURTOSUOJA-OVI
LK78H RC3 OUTWARD OPENING DOOR











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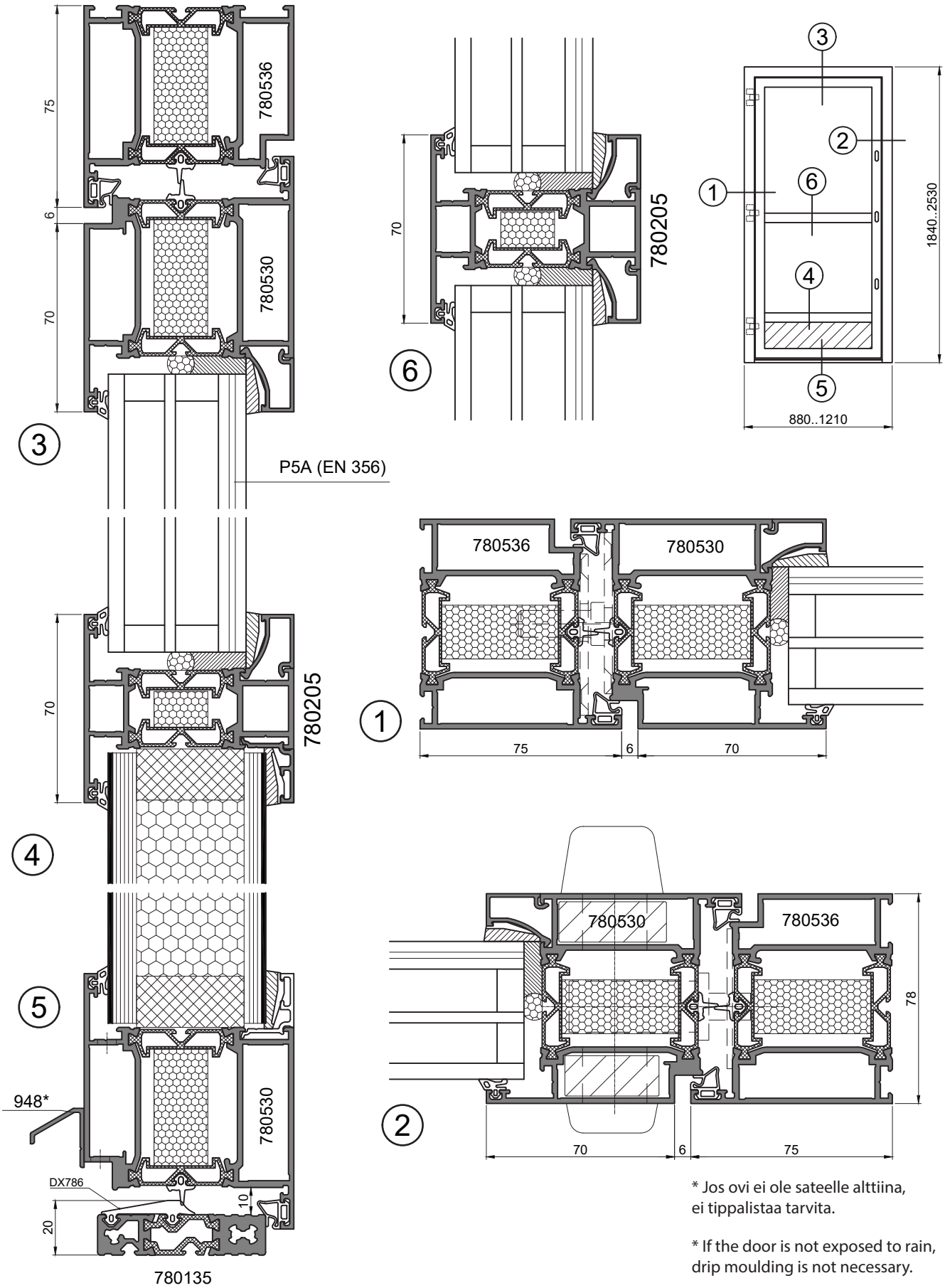
LK78H RC3 SISÄÄNAUKEAVA MURTOSUOJA-OVI
LK78H RC3 INWARD OPENING DOOR



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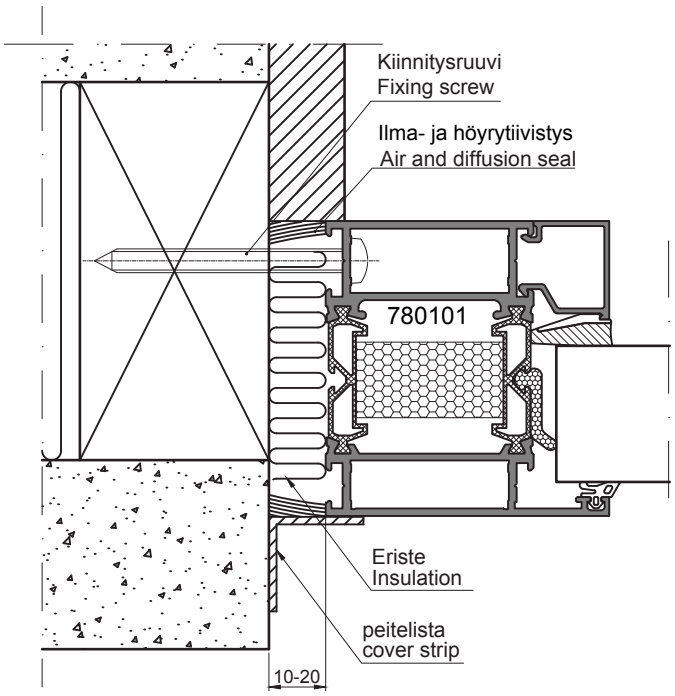
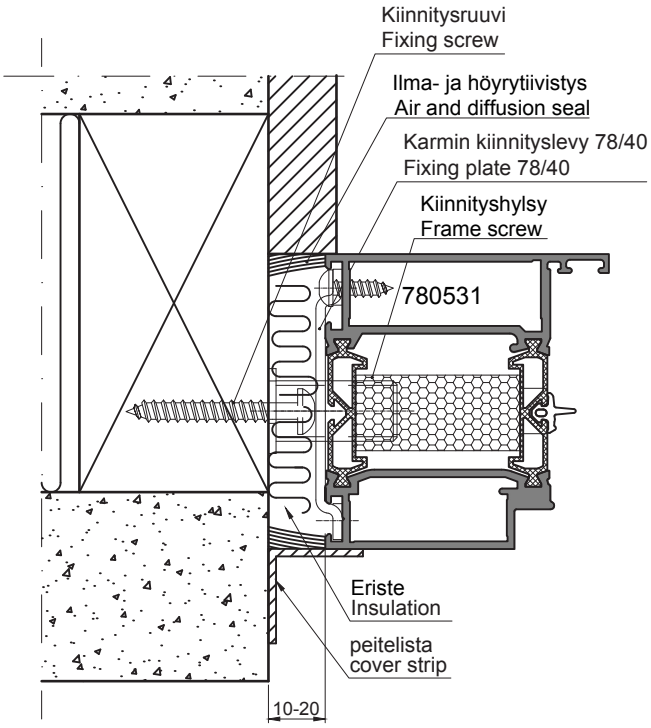
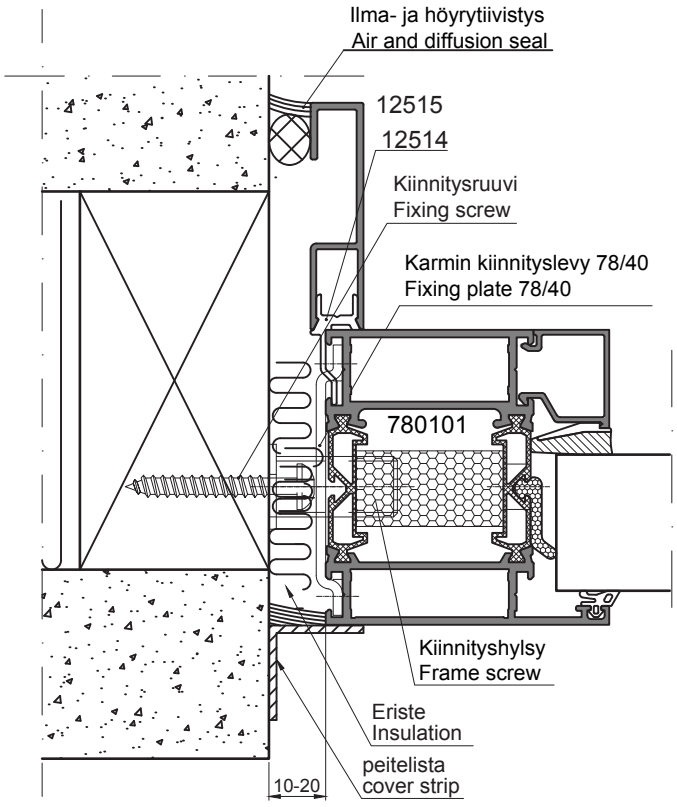
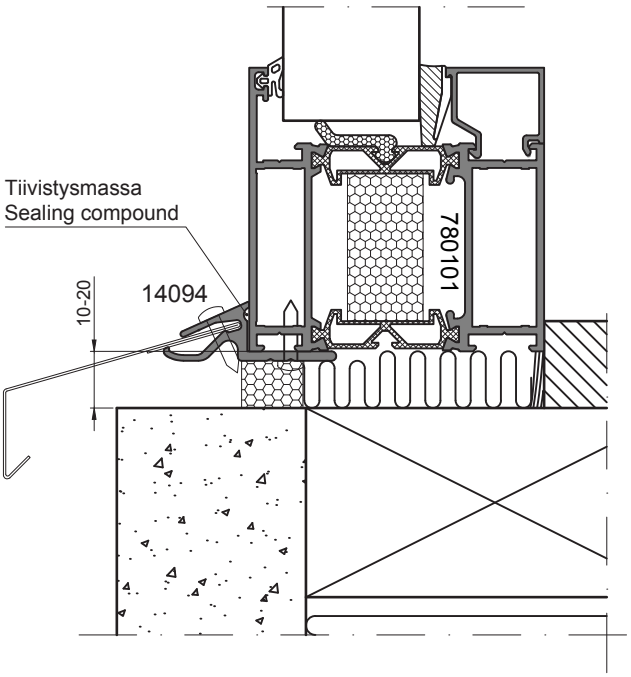
* If the door is not exposed to rain, drip moulding is not necessary.

LIITTÄMINEN RAKENNUSRUNKOON, ESIMERKKEJÄ
MOUNDING TO BUILDING FRAME, EXAMPLES

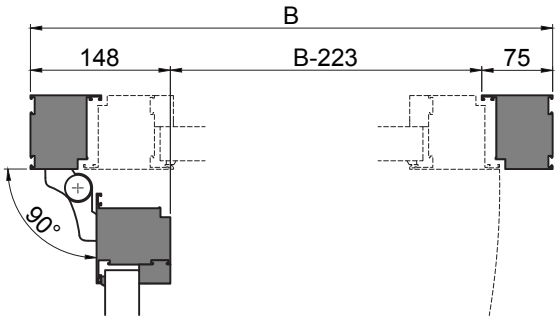


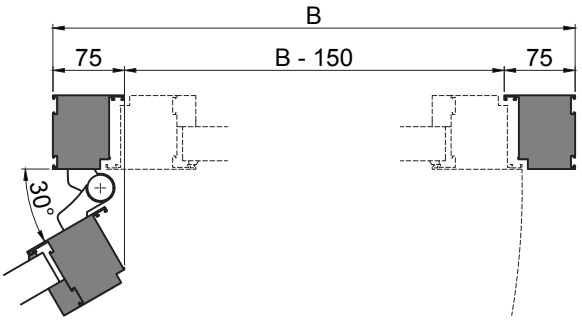


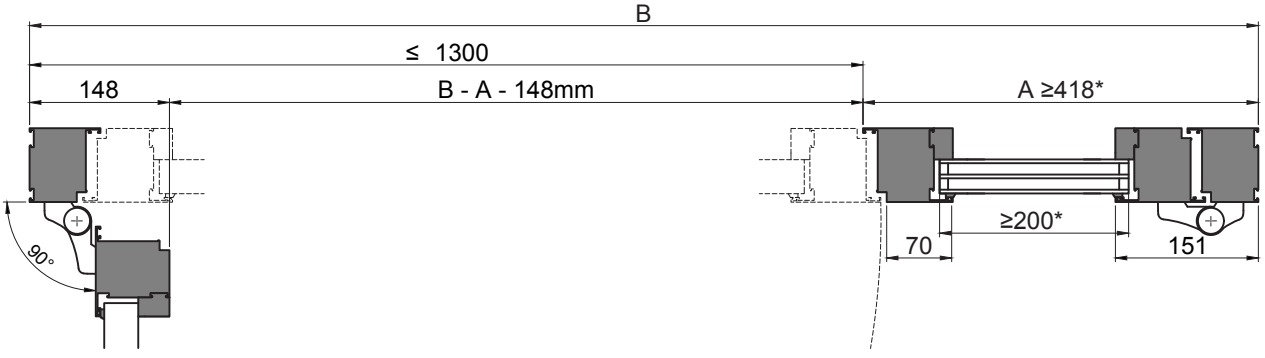


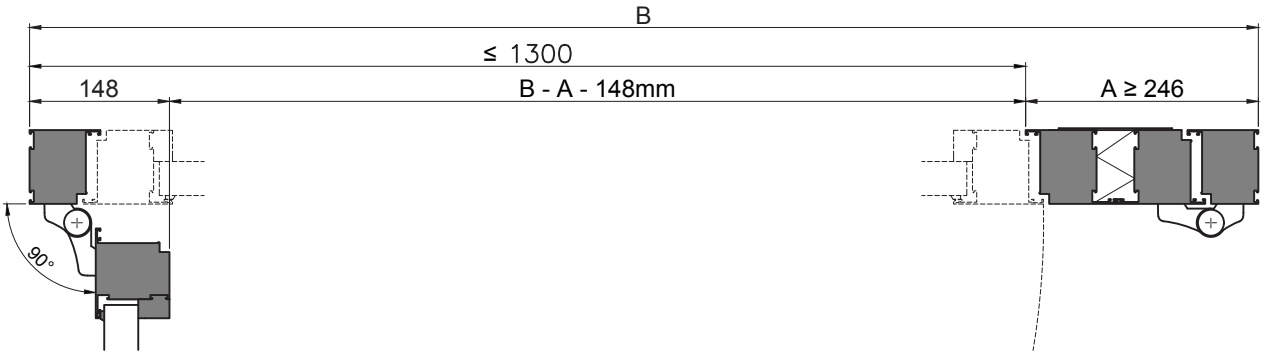


VAPAAT KULKUAUKOT, KARMI 780531
CLEAR DIMENSION, FRAME 780531



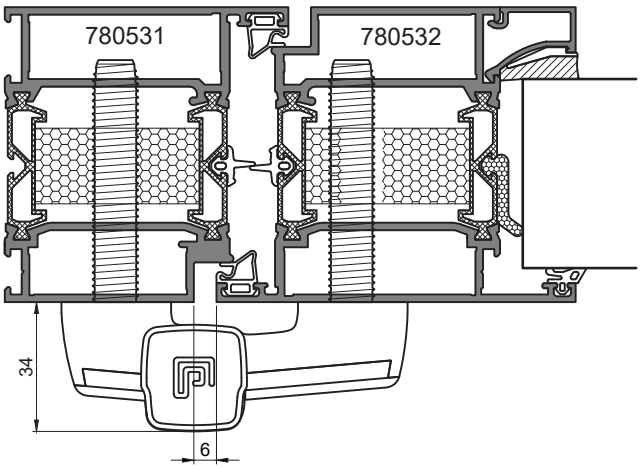


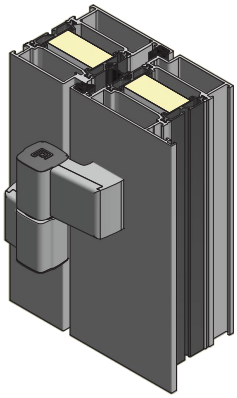




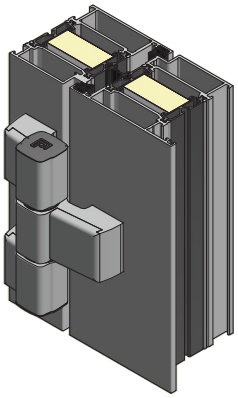
* Suositus
* Recommendation

LK78H OVISARANAT
LK78H DOOR HINGES





HAHN M701



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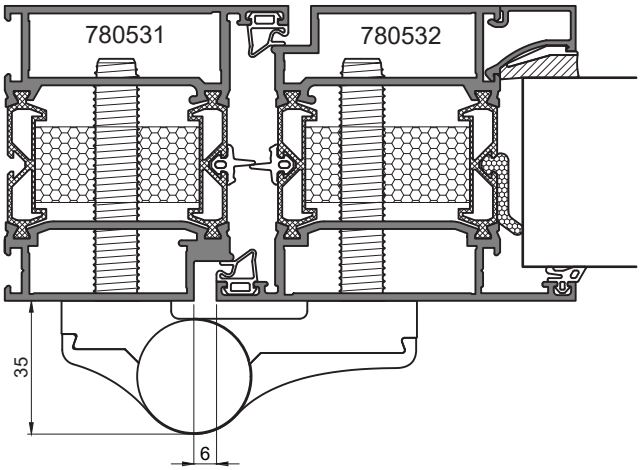

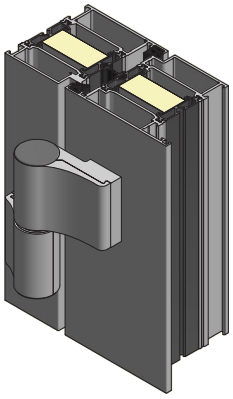

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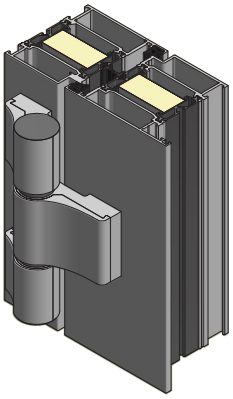

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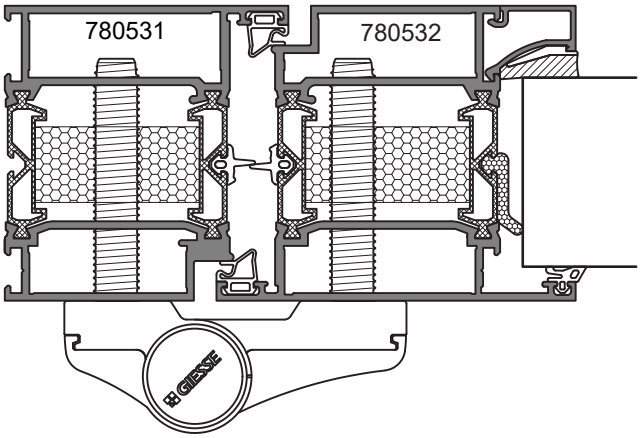
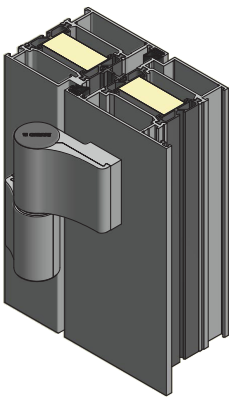
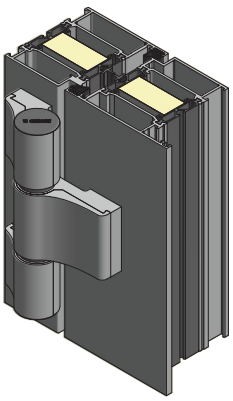


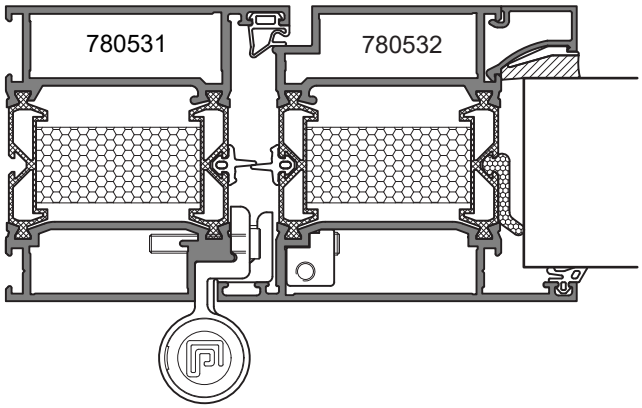


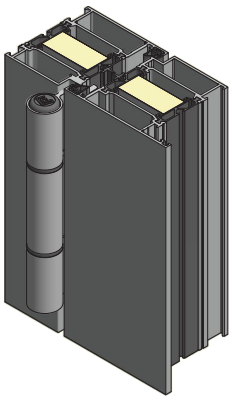
GIESSE DOMINA HP
2-leaf (05160V)



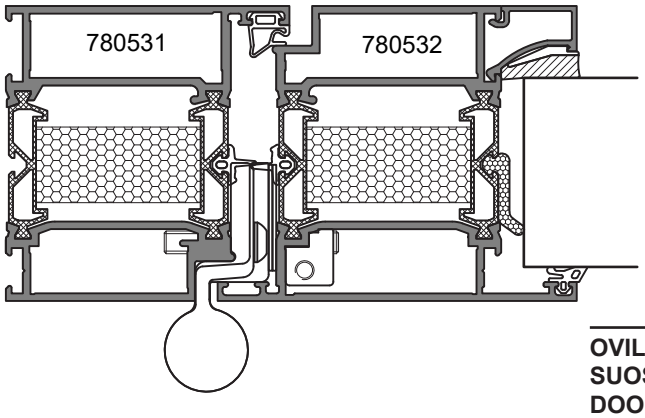
GIESSE DOMINA HP
3-leaf (05161V)

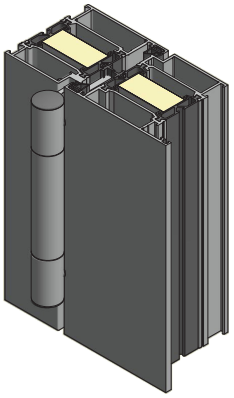
LK78H PUTKISARANAT
LK78H BUTT HINGES





SAVIO



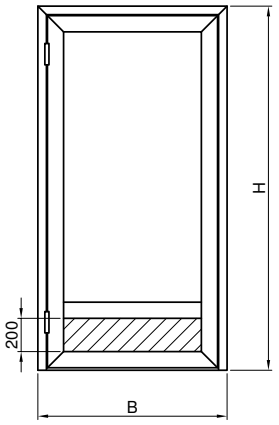


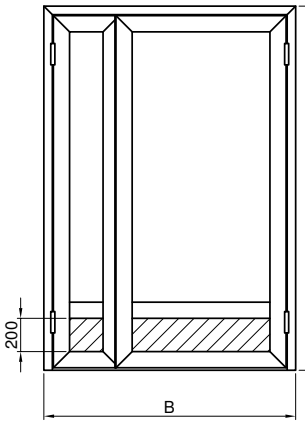
ALPRO

OVILEHDEN (leveys ≤ 1000, korkeus 2000...2300)
SUOSITELTAVAT MAKSIMIPAINOT (kg) ERI SARANOILLA
DOOR LEAVES (width ≤ 1000, heigth 2000...2300)
RECOMMENDED MAXIMUM WEIGTHS (kg) FOR HINGES

		Käyttökohde/ Application			
Saranat Hinges		Omakotitalot, yms. Single-family houses etc.	Porraskäytävän ovet, yms. Staircase doors, etc	Porraskäytävän ovet, yms. (Oviautomatiikka) Staircase doors, etc (Door automation)	Koulut, sairaalat, yms. (Oviautomatiikka) Schools, hospitals, etc. (Door automation)
Tyyppi/ Type	kpl/ pcs				
HAHN M701 (2-os)	2	100	—	—	—
	3	120	100	—	—
HAHN M751 (3-os)	2	120	100	—	—
	3	120	120	100	100
HAHN M901 (2-os)	2	120	—	—	—
	3	140	120	—	—
HAHN M951 (3-os)	2	120	120	—	—
	3	140	140	120	120
SAVIO	2	80	—	—	—
	3	100	80	80	80
ALPRO	2	80	—	—	—
	3	100	80	80	80
Giesse DOMINA HP (2-os)	2	120	—	—	—
	3	140	120	—	—
Giesse DOMINA HP (3-os)	2	120	120	—	—
	3	140	140	120	120

LK78H OVIEN U_D-ARVO ESIMERKKEJÄ (PUITE 780532)
LK78H U_D-VALUES (LEAF 780532)



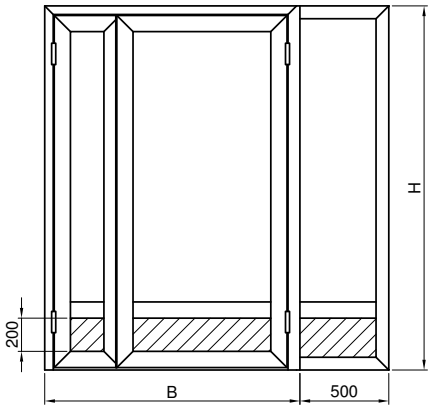


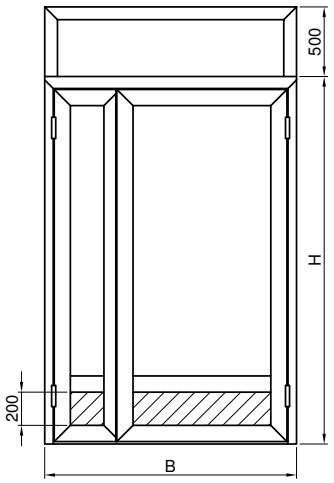
1-lehtinen ovi/ 1-leaf door

Eristyslasin välilista IGU spacer		Alum. 0,3			RST 0,18			TPS		
Lasin U_g arvo Glass U_g-value	W/m²K	0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B	H	Oven U_D-arvo Door U_D-value						W/m²K		
900	2200	1,1	1,2	1,2	1,1	1,1	1,2	1,0	1,1	1,1
1000	2200	1,1	1,2	1,2	1,0	1,1	1,1	0,97	1,0	1,1
1100	2200	1,1	1,1	1,2	1,0	1,0	1,1	0,95	1,0	1,1
1200	2200	1,0	1,1	1,2	0,97	1,0	1,1	0,93	0,99	1,0

2-lehtinen ovi/ 2-leaf door

Eristyslasin välilista IGU spacer		Alum. 0,3			RST 0,18			TPS		
Lasin Ug arvo Glass U_g-value	W/m²K	0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B	H	Oven U_D-arvo Door U_D-value						W/m²K		
1400	2200	1,2	1,2	1,3	1,1	1,1	1,2	1,0	1,1	1,1
1600	2200	1,1	1,2	1,2	1,0	1,1	1,1	0,99	1,0	1,1
1800	2200	1,1	1,2	1,2	1,0	1,1	1,1	0,95	1,0	1,1
2000	2200	1,1	1,1	1,2	0,97	1,0	1,1	0,93	0,98	1,0
2200	2200	1,0	1,1	1,2	0,95	1,0	1,1	0,90	0,96	1,0
2400	2200	1,0	1,1	1,1	0,93	1,0	1,1	0,89	0,95	1,0





2-lehtinen ovi sivupielellä/ 2-leaf door with side panel

Eristyslasin välilista IGU spacer		Alum. 0,3			RST 0,18			TPS		
Lasin Ug arvo Glass U_g-value	W/m²K	0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B	H	Oven U_D-arvo Door U_D-value						W/m²K		
1400	2200	1,2	1,2	1,3	1,1	1,1	1,2	0,98	1,0	1,1
1600	2200	1,1	1,2	1,2	1,0	1,1	1,1	0,95	1,0	1,1
1800	2200	1,1	1,2	1,2	0,99	1,0	1,1	0,93	0,99	1,0
2000	2200	1,1	1,1	1,2	0,97	1,0	1,1	0,91	0,97	1,0
2200	2200	1,0	1,1	1,2	0,95	1,0	1,1	0,89	0,95	1,0
2400	2200	1,0	1,1	1,1	0,93	0,99	1,1	0,88	0,94	1,0

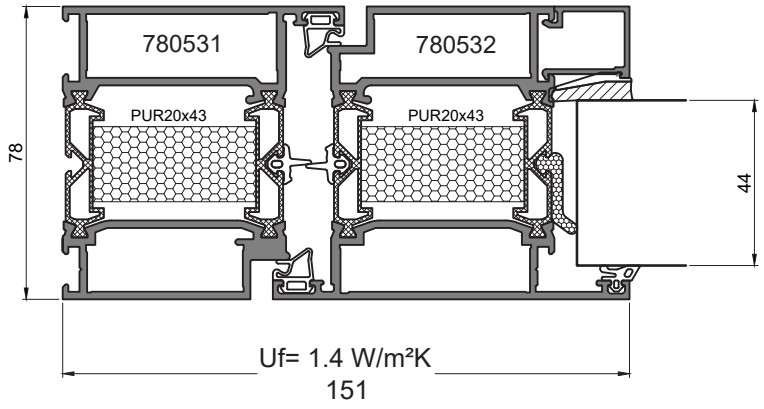
2-lehtinen ovi yläpielellä/ 2-leaf door with over panel

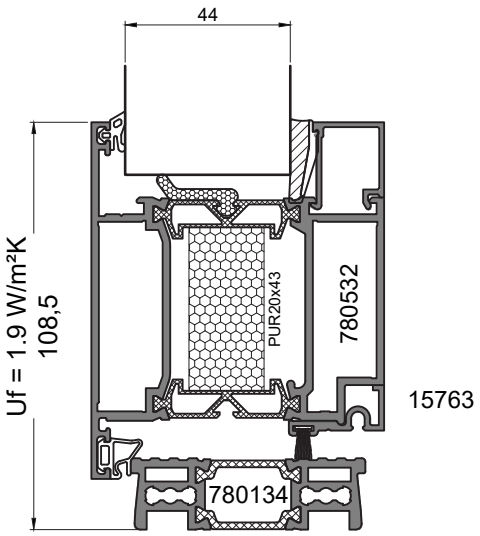
Eristyslasin välilista IGU spacer		Alum. 0,3			RST 0,18			TPS		
Lasin Ug arvo Glass U_g-value	W/m²K	0,5	0,6	0,7	0,5	0,6	0,7	0,5	0,6	0,7
B	H	Oven U_D-arvo Door U_D-value						W/m²K		
1400	2200	1,2	1,3	1,3	1,1	1,1	1,2	1,0	1,1	1,1
1600	2200	1,1	1,2	1,3	1,0	1,1	1,1	0,96	1,0	1,1
1800	2200	1,1	1,2	1,2	1,0	1,1	1,1	0,94	0,99	1,1
2000	2200	1,1	1,1	1,2	0,97	1,0	1,1	0,91	0,97	1,0
2200	2200	1,1	1,1	1,2	0,95	1,0	1,1	0,90	0,96	1,0
2400	2200	1,0	1,1	1,2	0,94	1,0	1,1	0,88	0,94	1,0

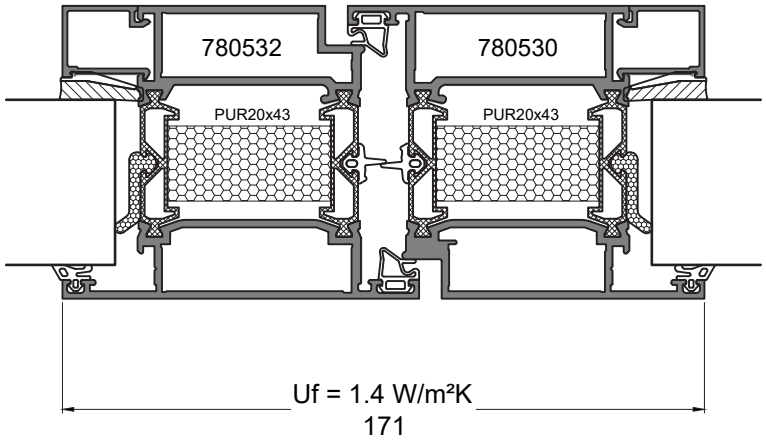
Laskennassa käytetyt eristyslasin lisäkonduktanssit ψ_g Linear thermal transmittance ψ_g of the IGU spacers used in calculations		
Alum. t=0.3mm	0,106 W/mK	EN ISO 10077-2:2012
RST t=0.18mm	0,065 W/mK	BF Datasheet 01
TPS	0,042 W/mK	BF Datasheet 11

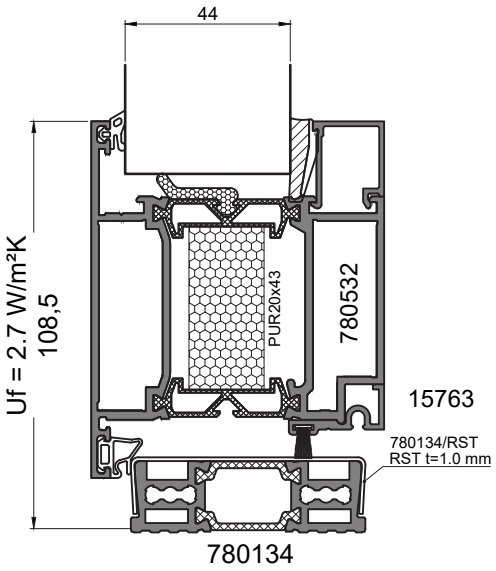
Karmirakenteen lämmönläpäisykertoimet U_f on määritetty standardin SFS-EN ISO 10077-2:2012 mukaan
Kynnys ilman RST-peitettä (780134/RST)
The thermal transmittance of the frames (U_f) are defined according to standard EN ISO 10077-2:2012
Treshold without stainless steel cover (780134/RST)

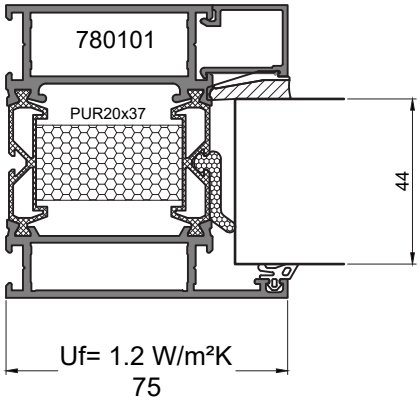
LK78H OVIPROFIILEIDEN U_f-ARVOJA
LK78H U_f-VALUES

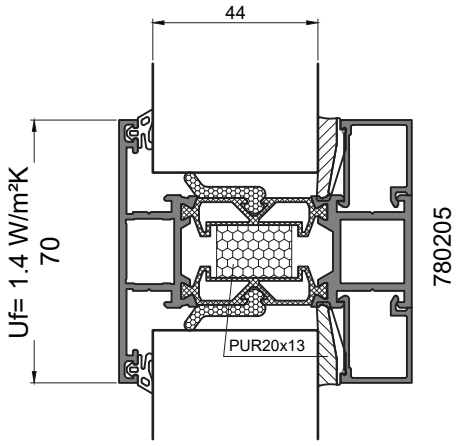


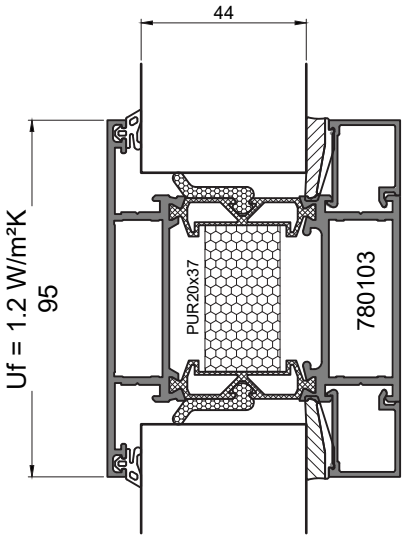












Karmirakenteen lämmönläpäisykertoimet U_f on määritetty standardin SFS-EN ISO 10077-2:2012 mukaan
The thermal transmittance of the frames (U_f) are defined according to standard EN ISO 10077-2:2012

OMINAISUUDET/ LUOKITUS SFS-EN 14351-1 +A1 MUKAISESTI
PROPERTIES/ CLASSIFICATION ACCORDANCE TO EN 14351-1 +A1

Ominaisuus **Properties**	**LK78H ovi** **LK78H door**			**LK78H pariovi** **LK78H double leaf door**		
Tuulenpaineen kestävyys [1] **Resistance to wind load** [1] **(EN 12210)**	**C3** (1200 Pa, ≤1/300)			**C3** (1200 Pa, ≤1/300)		
Sateenpitävyys [2] **Watertightness** [2] **(EN 12208)**	**5A** (ulosauk./ Outward) **9A** (sis.auk./ Inward)			**6A** (ulosauk./Outward) **7A** (sis.auk./Inward)		
Äänitekniset ominaisuudet [2) 3) 4)] **Acoustic performance** [2) 3) 4)] **(EN ISO 717-1)**	R_w 41dB [4)]	R_w+C 40dB [4)]	R_w+C_{tr} 38dB [4)]	R_w 41dB [4)]	R_w+C 40dB [4)]	R_w+C_{tr} 39dB [4)]
Lämmönläpäisykerroin (U_D) [3] **Thermal transmittance** (U_D) [3] **(EN ISO 10077-2)**	**≥ 0,91 W/m²K**			**≥ 0,92 W/m²K**		
Ilmanpitävyys [2] **Air permeability** [2] **(EN 12207)**	**4** (ulosauk./Outward) **4** (sis.auk./Outward)			**3** (ulosauk./ Outward) **2** (sis.auk./ Inward)		

Murronkestävyys [5] **Burglar resistance** [5] **(EN 1627)**	**RC3**	

HUOM! Taulukon arvot pätevät yksilehtisille oville 990x 2090 mm ja parioville 1520x 2090 mm pl. lämmönläpäisykerroin, jossa arvot laskettu standardikokoisille lasioville (1230x 2180 mm ja 2000x 2180 mm)

[1)] Elementin koko: yksilehtiset ≤ 2,1 m², pariovet ≤ 3,2 m²

[2)] Elementin koko: yksilehtiset ≤ 3,1 m², pariovet ≤ 4,8 m²

[3)] Projektikohtaiset arvot määritettävä erikseen

[4)] Lasi/ umpiosa, kts. LK78-tuotepassi

[5)] Ei CE-merkinnän piirissä. (Ei tuotestandardin EN 14351-1 taulukossa ZA.1).
Oven koko: 880 .. 1210 x 1840 .. 2530mm, erikoisrakenne

NOTE! Values in the table apply for single leaf door 990x 2090 mm and double leaf door 1520x 2090 mm excl. thermal transmittance which is calculated for standard size door (1230x 2180 mm and 2000x 2180 mm)

[1)] Element size: single leaf door ≤ 2,1 m², double leaf door ≤ 3,2 m²

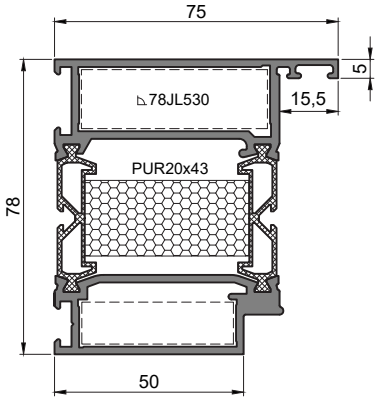
[2)] Element size: single leaf door ≤ 3,1 m², double leaf door ≤ 4,8 m²

[3)] Values according to project are declared separately

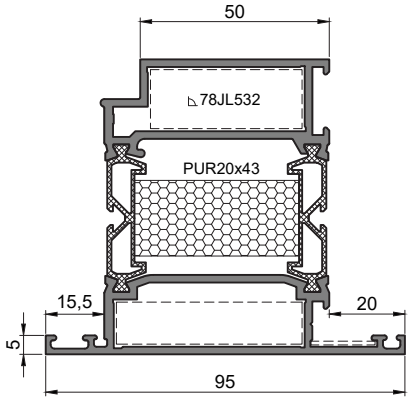
[4)] Glass/ Infill panel, see LK78-Product pass

[5)] Is not part of the CE marking. Does not belong in the standard EN 14351-1, table ZA.1.
Element size: 880 .. 1210 x 1840 .. 2530mm, special construction

OVIPROFIILIT
DOOR PROFILES



780531



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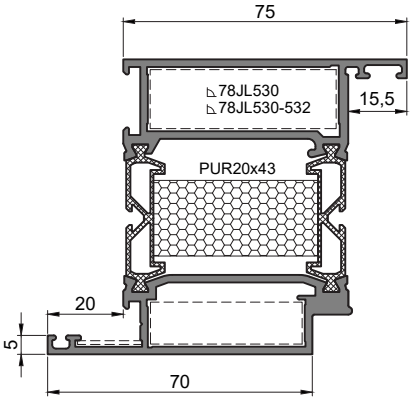

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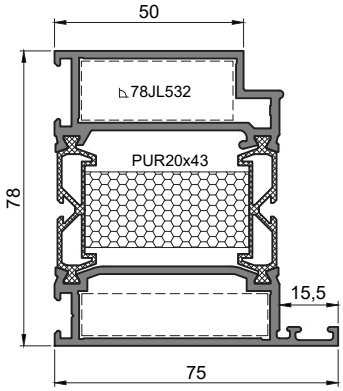

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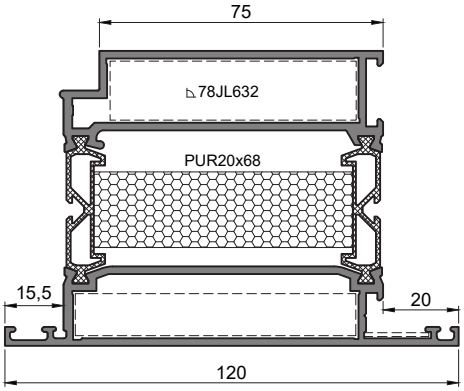

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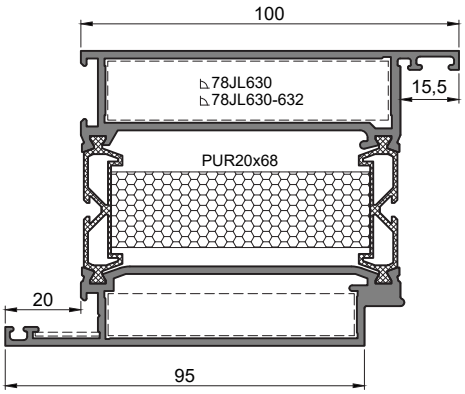

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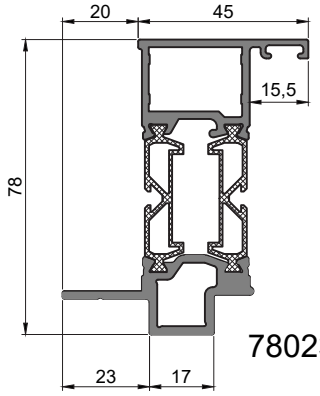

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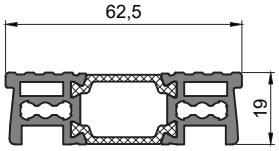

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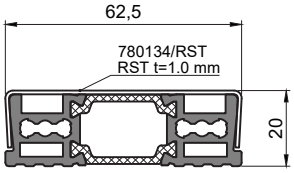

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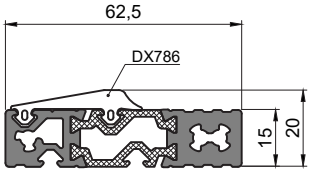

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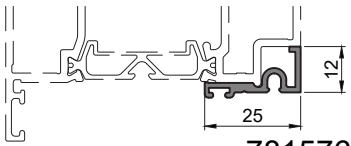

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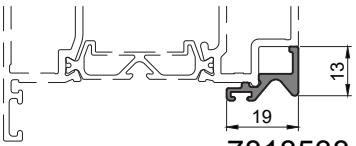

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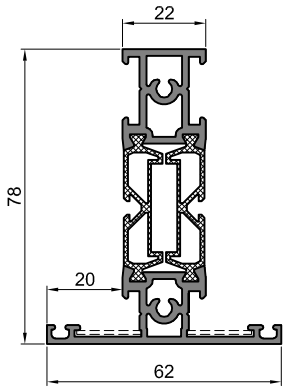

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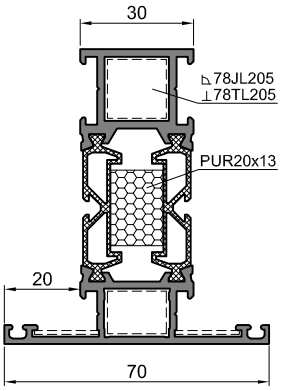

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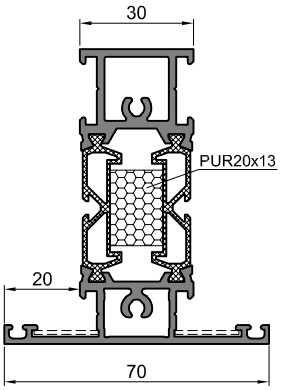

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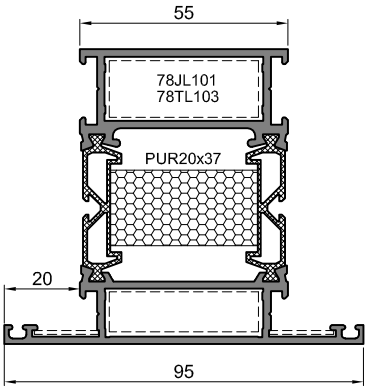

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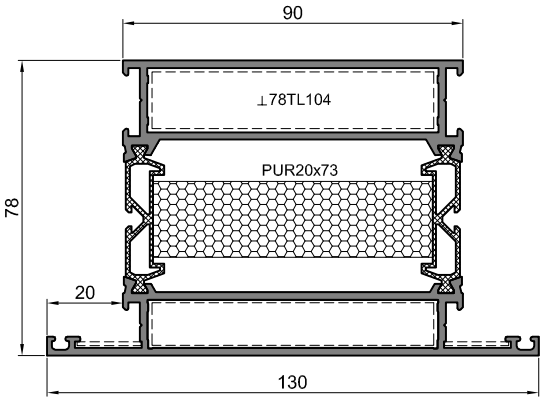

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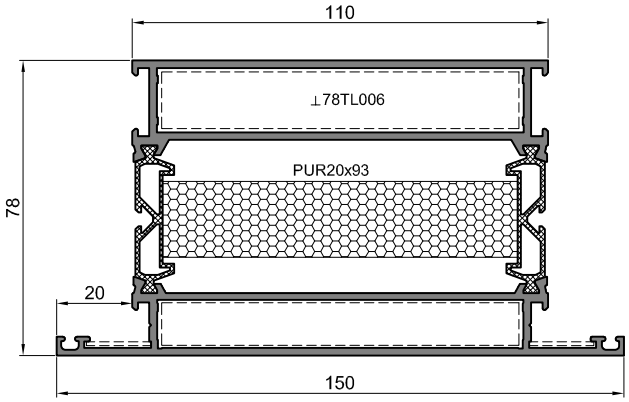

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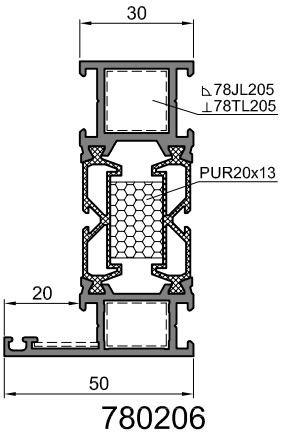

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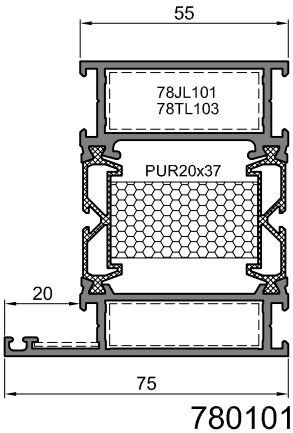

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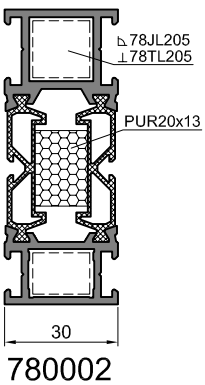

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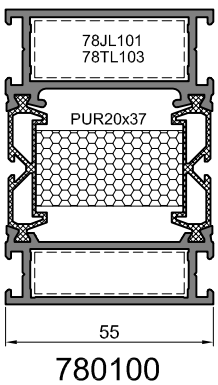

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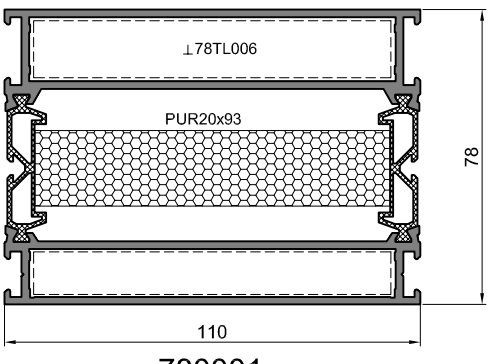

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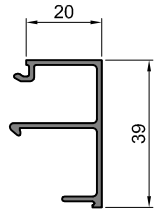

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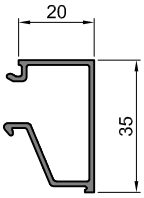

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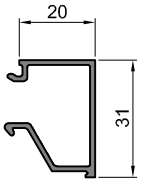

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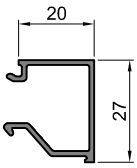

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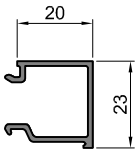

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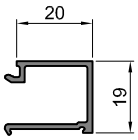

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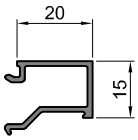

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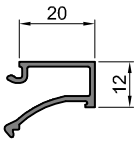

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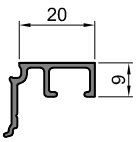

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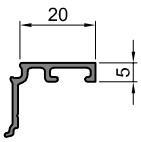

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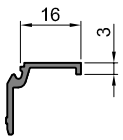

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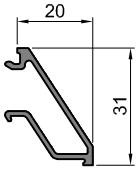

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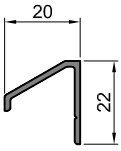

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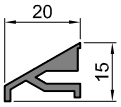

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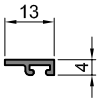

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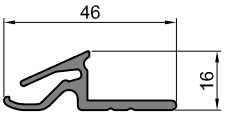

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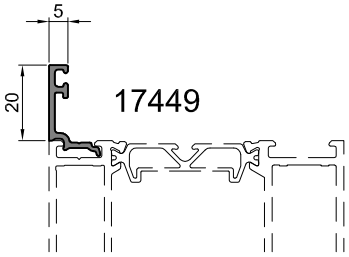

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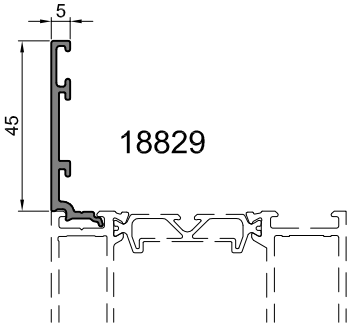

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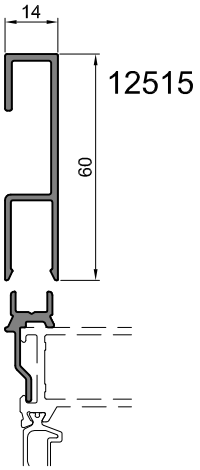

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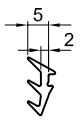

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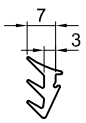

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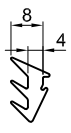

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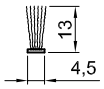

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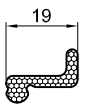

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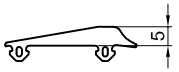

DX786

ERISTEET
INSULATION

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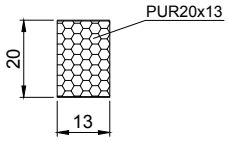
Profiileille/ for profiles: 780002, 780205, 780206



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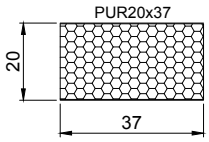

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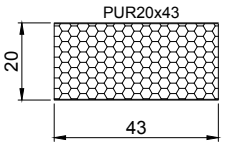
Profiileille/ for profiles: 780530, 780531, 780532,780536



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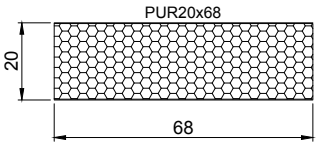

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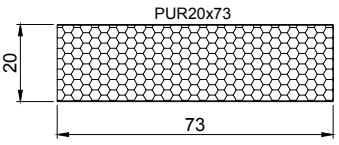

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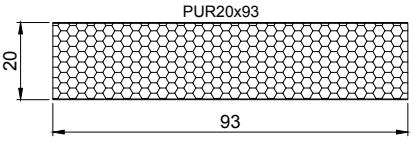
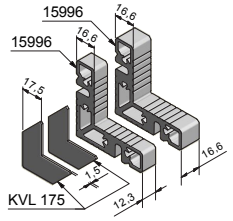
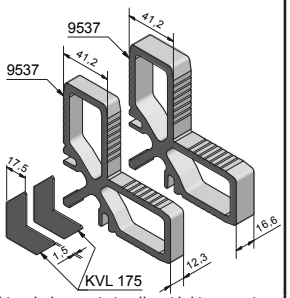
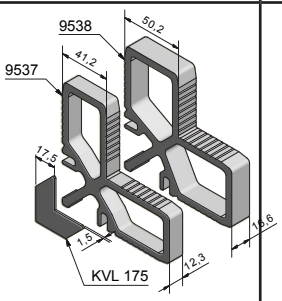
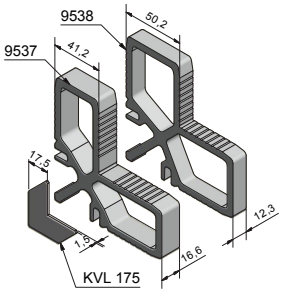
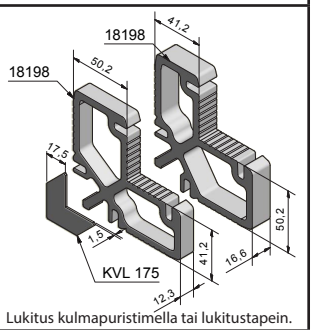
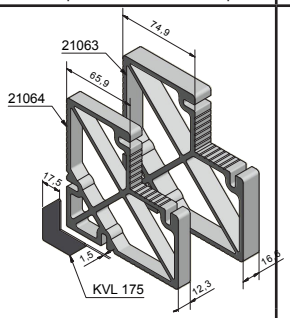
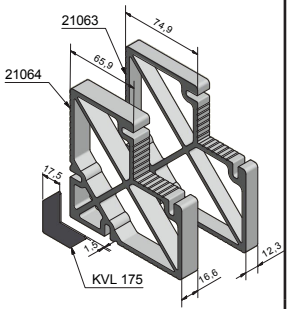
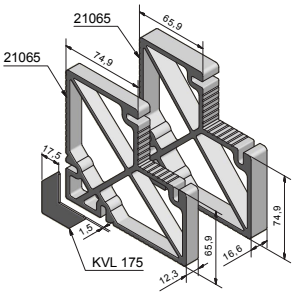
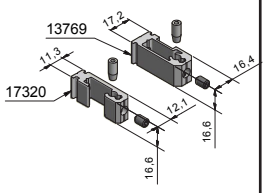
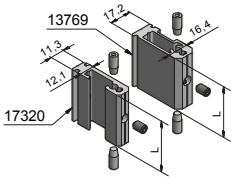
Profiileille/ for profiles: 780001, 780006



LIITOSKAPPALEET
JOINING PIECES

Profiili Profile	Jiiriliitoskappale Mitre joint piece	T-liitoskappale T-joint piece
780001		78TL006
780002	78JL205	78TL205
780006		78TL006
780100	78JL101	78TL103
780101	78JL101	78TL103
780103	78JL101	78TL103
780104		78TL104
780205	78JL205	78TL205
780206	78JL205	78TL205

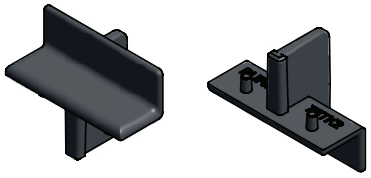
Profiili Profile	Jiiriliitoskappale Mitre joint piece	T-liitoskappale T-Joint piece
780530	78JL530	
780531	78JL530	
780532	78JL532	
780530/532	78JL530-532	
780630	78JL630	
780632	78JL632	
780630/632	78JL630-632	

Liitoskappale Joining piece		Liitoskappale Joining piece		Liitoskappale Joining piece	
78JL205	 Lukitus kulmapuristimella tai lukitustapein.	78JL101	 Lukitus kulmapuristimella tai lukitustapein.		
78JL530	 Lukitus kulmapuristimella tai lukitustapein.	78JL532	 Lukitus kulmapuristimella tai lukitustapein.	78JL530- 532	 Lukitus kulmapuristimella tai lukitustapein.
78JL630	 Lukitus kulmapuristimella tai lukitustapein.	78JL632	 Lukitus kulmapuristimella tai lukitustapein.	78JL630- 632	 Lukitus kulmapuristimella tai lukitustapein.
78TL205	 Pidätinruuvit ja lukitustapit tulevat T-liitospalojen mukana	78TL103 L=41,1 78TL104 L=76,1 78TL006 L=95,6	 Pidätinruuvit ja lukitustapit tulevat T-liitospalojen mukana		

TARVIKKEITA
ACCESSORIES

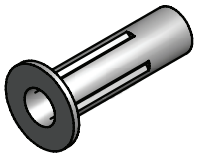
PARIOVEN TIIVISTYSKAPPALE
Symmetrinen, 4kpl/ ovi
Sealing piece for double door 4pcs/door

78TK2



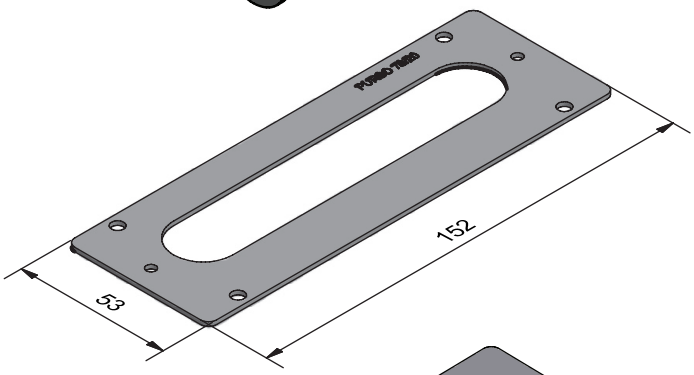
LUKON KIINNITYSNIITTI
Haarautuva sisäkierreniitti
(M5x25), 2kpl/ lukkorunko
Lock fixing clamp

78H/10



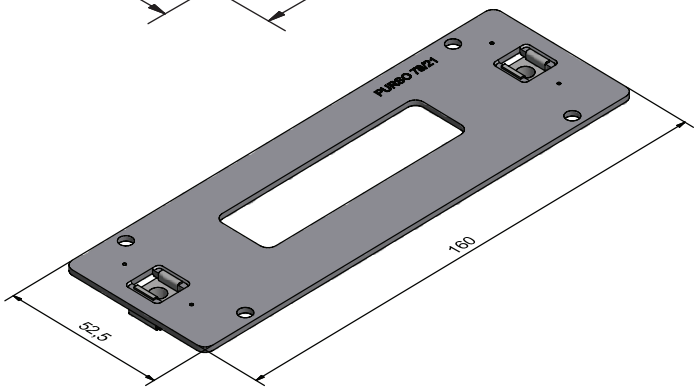
LUKON VASTALEVYN
ALUSLEVY
Base plate for lock counterplate

78/20



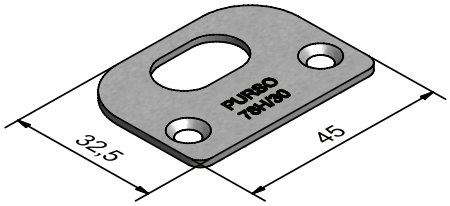
LUKON VASTALEVYN
SÄÄDETTÄVÄ ALUSLEVY
Adjustable base plate for lock
counterplate

78/21



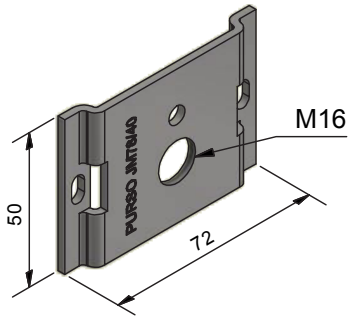
PIKASALVANHELA
Karmi ja kynnys
Fitting piece for quick latch

78H/30



KARMIN KIINNITYSLEVY
Fixing plate for frame

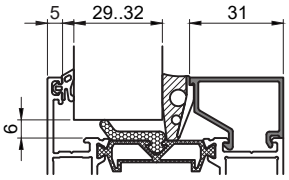
78/40



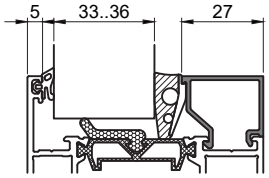
KIINNITYSHYLSY KIINNITYSLEVYYN 78/40
Frame-screws for fixing plate 78/40

LASITUSLISTOJEN JA TIIVISTEIDEN VALINTA
SELECTING GLAZING BEADS AND SEALINGS

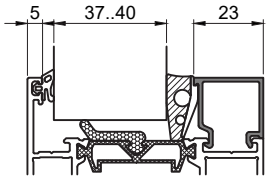
Lasin paksuus Glazing thickness	Lasituslista Glazing bead	Ulkopuolen-tiiviste Outer gasket	Sisäpuolen-tiiviste Inner gasket
29	783279	DX783	KT10
30	783279	DX783	KT10
31	783279	DX783	KT08
32	783279	DX783	KT08
33	7817961	DX783	KT10
34	7817961	DX783	KT10
35	7817961	DX783	KT08
36	7817961	DX783	KT08
37	787521	DX783	KT10
38	787521	DX783	KT10
39	787521	DX783	KT08
40	787521	DX783	KT08
41	783328	DX783	KT10
42	783328	DX783	KT10
43	783328	DX783	KT08
44	783328	DX783	KT08
45	783278	DX783	KT10
46	783278	DX783	KT10
47	783278	DX783	KT08
48	783278	DX783	KT08
48	7817960	DX783	KT10
49	7817960	DX783	KT10
50	7817960	DX783	KT08
51	7817960	DX783	KT08
51	7812225	DX783	KT10
52	7812225	DX783	KT10
53	7812225	DX783	KT08
54	7812225	DX783	KT08
55	7813565	DX783	KT10
56	7813565	DX783	KT10
57	7813565	DX783	KT08
58	7813565	DX783	KT08



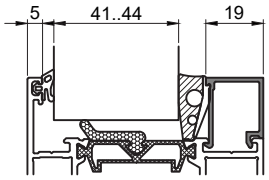
3279



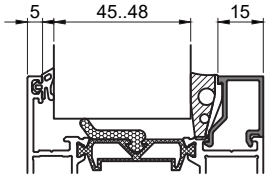
17961



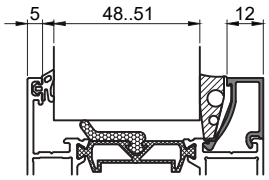
7521



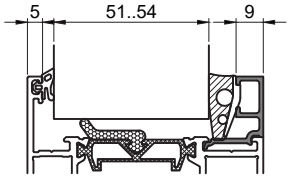
3328



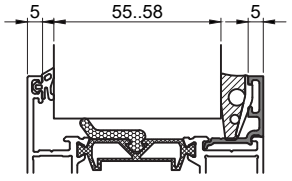
3278



17960

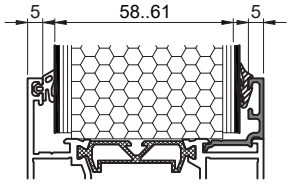


12225



13565

Umpiosan paksuus Panel thickness	Lasituslista Glazing bead	Ulkopuolen-tiiviste Outer gasket	Sisäpuolen-tiiviste Inner gasket
58	7813565	DX783	PX6
59	7813565	DX783	PX5
60	7813565	DX783	PX4
61	7813565	DX783	PX4



13565

PURSO®

LK78H

03/2019

TEKNISIÄ TIETOJA

Profiilit

- alumiiniseos yleensä EN-AW 6063 T5
  $Rp_{p0,2}$ min = 130 N/mm²
  R_m min = 175 N/mm²
  E = 70000 N/mm²
- alumiinirakenteiden suunnittelussa on huomioitava lämpötilan muutoksista aiheutuvat siirtymät
- alumiinin lämpölaajenemiskerroin on $24x10^{-6}$/K
- profiilien muototoleranssit EN 755-9 tai EN 12020-2 mukaan
- seos soveltuu erinomaisesti anodisoitavaksi
- toimituspituus on normaalisti 6,6 m, muut mitat erikoistilauksesta
- lämpökatkon materiaali on polyamidi, joka kestää anodisoinnin ja maalauksen

Profiilien pintakäsittely

Anodisointi

Anodisointi on sähkökemiallinen menetelmä, jolla kasvatetaan alumiinin luonnollisen oksidikerroksen paksuutta. Anodisointi muodostaa kovan, mekaanista kulutusta kestävän pinnan, jolla on erinomainen säänkesto.

Jauhemaalaus

Jauhemaalauksessa profiilin pintaan ruiskutetaan pulveri, joka sulatetaan uunissa kestäväksi ja tasaiseksi pinnaksi. Ennen maalausta profiileille tehdään esikäsittely, jolla varmistetaan maalin pysyvyys. Normaalisti käytetään RAL-värikartan sävyjä, mutta muutkin sävyt ovat mahdollisia.

Tiivisteet

Materiaali: EPDM-kumi
Väri: musta

TECHNICAL INFORMATION

Profiles

- Aluminium alloy usually EN-AW 6063 T5
  $Rp_{p0,2}$ min = 130 N/mm²
  R_m min = 175 N/mm²
  E = 70000 N/mm²
- Thermal transitions caused by changes in temperature must be taken into account in the design
- Thermal expansion coefficient of aluminium is $24x10^{-6}$/K
- Shape tolerances of profiles according to EN 755-9 or EN 12020-2
- Alloy is well suited for anodizing
- Delivery length of profiles normally 6,6 m, other lengths available on request
- Material of thermal breaks is polyamide which endures anodizing and powder coating

Surface treatment

Anodizing

Anodizing is an electrochemical method for increasing the thickness of the natural oxide layer of aluminium. Anodizing forms a hard, mechanical wear-resistant surface with excellent weather resistance.

Powder Coating

In powder coating the powder is injected into the surface of the profiles, which then is melted in a furnace into a durable and smooth surface. Before painting, the profiles are pre-processed, in order to ensure the endurance of the coating. Normally profiles are painted with RAL color shades, but other colors are also possible.

Gaskets

Material: EPDM-rubber
Colour: black

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Valmistus, myynti ja tekninen neuvonta
Manufacturing, sales and technical information

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